AGASTYA INTERNATIONAL FOUNDATION
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Anveshana
BUILDING BRIDGES TO DISCOVER

"100 Times Curious" – Collection of Questions

Released on the occasion of

Science & Engineering Fair of Selected Projects @

SHIKSHAKARA SADANA on 25th, 26th & 27th February 2020

Organised by **Agastya International Foundation**

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CONTENTS

FOREWORD

It is well established in neuroscience that the young brain is constantly completing a picture of the world, its objects, processes and relationships. How does it do so? By asking questions and going after what seem to be hidden mysteries. If curiosity is a trigger questions are its outcomes.

But not every child gets an opportunity to give a definite form to its questions or share its curiosities. In fact the poorer a child's economic circumstances are, the higher is the incidence of what we might call stimulus poverty- the lack of stimuli in his or her environment. Material poverty is but one reason for stimulus poverty. Children can grow stimulus-poor from any material circumstance.

Anveshana is one more platform Agastya International Foundation has created to address this problem. This event, now 9 years old in Bangalore, completed 7 years in Hyderabad 5 years in NCR 2 Years in Mumbai has a built-in opportunity for children to get curious and ask question because it takes them far away from their regular environs thus providing a state of excitation from which questions will result.

Till now we had not created a process to verify if this questioning is happening while children and their guides engage in their projects. Anveshana 2015 set out to correct this.

What you see in this volume are the questions children asked while doing their projects. It is almost certain not all of them could have been answered. Equally, each is a first step in a voyage of discovery that the child has begun.

Agastya International Foundation

100 TIMES CURIOUS – ANVESHANA KARNATAKA

Sl. No.	Project Title	College
1	EFFECT OF MAGNETIZES RAIN WATER	AMRUTA INSTITUTE OF ENGINEERING AND TECHNOLOGY
2	AQUA TRACE	BNM INSTITUTE OF TECHNOLOGY,BANGALORE
3	UNMANNED AGRICULTURE VEHICLE	CHANNABASAAVESHWARA INSTITUTE OF TECHNOLOGY,GUBBI
4	PHOTO ORGANIC CELL	DAYANANDASAGAR COLLEGE OF ENGINEERING,BANGALORE
5	PLANT DISASE DETECTION ROBOT	G.M INSTITUTE OF TECHNOLOGY,K M DODDI
6	SOALR PESTICIDES GRASS CUTTER	G.M INSTITUTE OF TECHNOLOGY,K M DODDI
7	SELF BALANCING ELECTRIC BIKE	HMS INSTITUTE OF TECHNOLOGY,TUMKUR
8	SEA SAND CONCRETE FOR GREEN INDIA	MANGALORE INSTITUTE OF TECHNOLOGY AND ENGINEERING,MANGALORE
9	BLOOD BANK AUTOMATION A- LIFE	MANGALORE INSTITUTE OF TECHNOLOGY AND ENGINEERING,MANGALORE
10	HYBRID PVT SYSTEM FOR RURAL	R L JALAPPA INSTITUTE OF TECHNOLOGY,DODDABALLAPURA
11	AIR REFORM	REVA UNIVERSITY,BANGALORE
12	WSN BASED SERICULTURE	SAMBHRAM INSTITUTE OF TECHNOLOGY,BANGALORE
13	SPIDEY ROBO POOH HONEY EXTRACTOR	SAMBHRAM INSTITUTE OF TECHNOLOGY,BANGALORE
14	STUDENTS EYES CLOSURE AND YAMINI	SCHOOL OF ENGINEERING AND TECHNOLOGY JAIN (DEEMED UNIVERSITY)
15	SUSTAINABLE TEXT CONVERTER	SRI DHARMASTHALA MANJUNATHESHWARA INSTITUTE OF TECHNOLOGY,UJIRE
16	PAYANA	SRI DHARMASTHALA MANJUNATHESHWARA INSTITUTE OF TECHNOLOGY,UJIRE

17	SMART COOLER	Dr.MAHALINGAM COLLEGE OF ENGINEERING,POLLACHI
18	IOT ENABLED SMART MUSHROOM CULTURE	Dr.MAHALINGAM COLLEGE OF ENGINEERING,POLLACHI
19	THERMO COOLER	Er.PERUMAL MANIMEKALAI COLLEGE OF ENGINEERING,HOSUR
20	DRONE BASED SEARCH AND RESUCE	SRI VENKATESHWARA COLLEGE OF ENGINEERING,BANGALORE
21	FORMULATION FROM M PRURIENS	SRI VENKATESHWARA COLLEGE OF ENGINEERING,BANGALORE
22	SIGH GLOVES FOR MUTE PEOPLE	VIDYA VIKAS INSTITUTE OF TECHNOLOGY,MYSORE
23	JEEVA RAKSHAKA	VIDYA VIKAS INSTITUTE OF TECHNOLOGY,MYSORE
24	VEHICAL USING HEARTBEAT SENSOR	VIDYAVARDAKA COLLEGE OF ENGINEERING,MYSORE
25	AGRICULTURE DRONE	DAYANANDA SAGAR UNIVERSITY,BANGALORE
26	FARMAR'S FRIEND	DAYANANDA SAGAR UNIVERSITY,BANGALORE
37	HYDROGEN THERMAL POWER PLANT	JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGINEERING,SHIVAMOGGA
28	BRIDGE CAPACITOR	PRISIDENCY UNIVERSITY
29	SILLA-DE-RUEDAS	SAI RAM COLLEGE OF ENGINEERING,ANEKAL
30	MONITORING OF HIGH WAY WIND POWER	SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY,TUMKUR
31	FOOD MANAGEMENT USING IOT	SRI JAGADGURU CHANDRASHEKARANATHA SWAMIJI INSTITUTE OF TECHNOLOGY,CHIKKABALLAPURA
32	ARTIFICIAL INTELGENCE BASED VISUALIZATION DEVICE	SRI VENKATESHWARA COLLEGE OF ENGINEERING,BANGALORE
33	TECHNO GLASSES	SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY,BANGALORE
34	RECLAMATION OF POMOGRANATE INDUSTRY WASTE	SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY,BANGALORE
35	BEACH CLEANING	BEARYS INSTITUTE OF TECHNOLOGY,BANGALORE

36	BLDC DRIVEN HYBRID TWO WHEELAR	PES COLLEGE OF ENGINEERING,MANDYA
37	ARTIFICIAL PLANT EMOTION XPRESSOR	SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY,BANGALORE
39	HELP OUR FEEDERS FARMERS	B M SREENIVASAIH COLLEGE OF ENGINEERING,BANGALORE
39	ARECANUT PLUCKING MACHINE	MANGALORE INSTITUTE OF TECHNOLOGYAND ENGINEERING
40	PLANATONOMUS	Dr.MAHALINGAM COLLEGE OF ENGINEERING,POLLACHI
41	ENVIROTARD PAVEMENT BLOCK	BLDEA'S Dr.P.G HALAKATTI COLLEGE OF ENGINEERING AND TECHNOLOGY,VIJAYAPURA
42	DISEASE CONTROL DEVICE	BAPUJI INSTITUTE OF ENGINEEIRNG AND TECHNOLOGY,DAVANAGERE
43	SASOYAJAS	HIRASUGAR INSTITUTE OF TECHNOLOOGY,NIDASOSHI
44	AYUSHMAT CUTLERY	GM INSTITUTE OF TECHNOLOGY,DAVANAGERE
45	COMPOSITE MATERIAL (GARMENT)	HIRASUGAR INSTITUTE OF TECHNOLOOGY,NIDASOSHI
46	GRAIN BAGGING MACHINE	HIRASUGAR INSTITUTE OF TECHNOLOOGY,NIDASOSHI
47	RECORD AND PLAY ROBOTIC ARM	GM INSTITUTE OF TECHNOLOGY,DAVANAGERE
48	GROW IT YOUR SELF	VSM INSTITUTE OF TECHNOLOGY,NIPPANI
49	INTELLIGENT HELMENTS	VSM INSTITUTE OF TECHNOLOGY,NIPPANI
50	PUNICA TOOTH PRODUCTS	BASAVESHWAR ENGINEERING COLLEGE,BAGALKOT

1. EFFECT OF MAGNETIZED RAIN WATER

1. Define effect of magnetized rain water?
2. How water is magnetized?
3. What is various effect of magnetized rain water?
4. Does magnetic water important to treat?
5. What does magnetized water do?
6. Do magnetic effects work?
7. How can we make magnetized water?
8. What is exact magnetic material used?
9. How do you ionize water?
10. What happens when you put magnet in water?
11. What type of magnet do we use?
12. What is benefit from magnetic water?
13. How long does magnet kept in water?
14. How long it can be used?
15. What is the process for magnetizing water?
16. What should be the temperature of water before placing a magnet in it?
17. How much should be PH of water?
18. Is magnetized water good for you?
19. Is magnetized water can be used for drinking?
20. What are the benefits of drinking magnetized water?
21. How does magnet affect rain water?
22. What is rain water harvesting?
23. What is purpose using rain water for magnetism?
24. Where the water is stored?
25. What does it cost to store rain water?
26. What are the different structures used for rain water harvesting?
27. Is rain water safe drinking without magnetizing it ?
28. How magnetized rain water useful for agriculture?
29. Is it possible to use magnetized rain water for industrial purpose?
30. Can magnetized rain water replace water for public utility?
31. How space is required for to collect rain water?
32. Who can practise RWH?
33. Why RWH is important?
34. Where RWH can be implemented?
35. Is RWH only fissile for new buildings?
36. What quantity of rain water can be collected?
37. What type of filters required for RWH?
38. Which type is needed if the rain water is to be used for fleshing toilet?
39. Can the stored rain water in storage tanks be used for cooking and drinking?
40. What is the various type of RWH?
41. What are the basic components of RWH and conservation systems?
42. What are basic components of RWH and conservation systems?
43. What are the characteristics of good RWH systems?
44. Can existing structures can be used for RWH?
45. What does artificial recharge mean?
46. What are the various types of recharge structures?
47. What is recharge pit ?
48. Is it same as recharge well?

49. What should be the dept. of recharge well pit ?
50. Where the legal guidelines and the implications for recharge pit sizes?
51. How much do recharge pit costs?
52. What are basic steps begins the process of RWH?
53. What are benefits magnetized of rain water?
54. Is magnetized rain water new trend?
55. By this magnetized rain water can develop best practice?
56. Is magnetized rain water used for agriculture?
57. Is magnetized rain water can be used for irrigation water experiment?
58. Magnetized water technology is farming and agriculture?
59. If it can be used for agriculture what may be the benefits?
60. Why concrete is used in magnetized rain water?
61. How concrete help magnetized rain water?
62. Type of concrete used in magnetized rain water?
63. What type and size of mould is prepared for curing in magnetized rain water?
64. Which type of cement is used for mould?
65. What would be the PH value of water in which mould is kept for curing?
66. What would be effect of magnetized water on properties of concrete?
67. How does magnetized water react on concrete?
68. Is it safe for concrete which is kept in magnetized water?
69. What would be the effect of magnetized water on workability and compressive strength of concrete?
70. Influence of magnetized water on strength properties of concrete?
71. What is use of magnetized water in concrete?
72. How it can be implementing of magnetized water in concrete?
73. How concrete aggregate is being dependent jn magnetized water after placing it in water?
74. What are effect of magnetized water on mixing and curing of concrete?
75. What is effect of using water passed to high magnetic field on strength of concrete?
76. How properties of magnetized water react with concrete?
77. How magnetized water gives strength to the concrete?
78. How do you Influence of magnetized water on concrete by replacing cement partially with upper slag?
79. What would be the difference by curing mould in normal and magnetized water?
80. Would we get similar reading testing after certain periods of compression test?
81. What would be standards of cement and concrete?
82. What would be magnetic effect on white cement?
83. What would be tensile strength of magnetized concrete?
84. What would be compression strength of magnetized concrete?
85. Magnetized water effect on concrete properties of canal lining?
86. What are alternatives magnetic field effects on fine aggregate?
87. What would be effect of magnetic water on strength parameter of concrete?

88. What would be effect of magnetized water on the mechanical effect of concrete containing recycled water glass aggregate?
89. What would be effects of magnetized water on the mechanical and durability properties of concrete block pavers?
90. What is scope of study about concrete in magnetized water?
91. What is consistent of magnetized water concrete (MWC)?
92. What references are taken for the consists of magnetized water?
93. What would be mix proportion of concrete in magnetized water?
94. What would be the readings of proper experiment done?
95. What readings of different periods tests would it may be similar or different?
96. What is conclusion of using concrete in magnetized water?
97. What is discussion of this experiment?
98. What is experiment process done?
99. What is result of whole experiment?
100. When stated Anveshana

2. AQUA TRACE

1. Why the name aqua trace?
2. What is the difference between offline and online processing?
3. What is cloud storage?
4. What is an arithmetic unit in CPU?
5. What is a processor?
6. What is an operating system?
7. Is there a difference between Arduino and raspberry pi?
8. What is the difference between microprocessor and microcontroller?
9. What is meant by live streaming?
10. What are the properties of water?
11. Why water is called a universal solvent?
12. Give an example for online and offline communication.
13. Mention the chemical constituents of water.
14. What parameters affect the quality of water?
15. What is turbidity?
16. How will temperature affect the quality of water?
17. Even rain water will have particles in it so is it also of low quality?
18. What is the meaning of suspended particles?
19. In this project where is the water samples tested?
20. What is the unit of turbidity?
21. Is there a way to remove or separate the suspended particles?
22. What are sensors?
23. Is this model fully automated or manually operated?
24. How is the power supplied to the components when it is deployed in a water body?
25. Where all can this model be implemented?
26. Why can't the model be deployed in a river?
27. Why should we store images in the form of pixels?
28. How are the images stored?
29. What is a binary language?
30. How does the system differentiate between the binary value 0 and 1?
31. What is memory in a system?
32. How is the code that we load to the programming stored permanently?
33. Is the code stored permanently in the Arduino/raspberry pi?
34. Where is the coding done?
35. How is the code transferred from the system to the Arduino?
36. How will the user get to know the readings of the sensor?
37. What is a ph?
38. What is meant by a solution being acidic, basic or neutral?
39. How will the camera get to know when should it click an image?
40. If the system can understand only 0's and 1's how will it understand the English like language in which we are coding?

41. How will you protect the components placed in the model from water getting into it?
42. What are insulators and conductors of current?
43. What is the difference between an analog value and a digital value?
44. How will the boat change its direction according to the landscape?
45. Why there are so many languages like java, c, c++?
46. What is the cost of the model?
47. Difference between AC and DC current?
48. What type of current is required by the Arduino board?
49. What is IOT?
50. How many types of Arduino are there?
51. How many types of raspberry pi are there?
52. How are the conditions specified in a programming language?
53. What are functions in a programming language?
54. What is meant by a function returning a value?
55. How will the model continuously do the specific task?
56. Difference between inbuilt and user defined functions?
57. What causes a water to become turbid?
58. When you can find the quality of water using turbidity sensor why there is a need for PH sensor?
59. What is a pixel?
60. What is the use of so many pins that are present on the Arduino board?
61. What are the functions of the pins present on the raspberry board?
62. Which type of Arduino is used in this model?
63. Which version of raspberry pi is used in this model?
64. What is analog to digital conversion?
65. Are analog to digital convertors present on the programming boards?
66. What type of current is passed from the battery to the board?
67. Why Bluetooth is not used for the transfer of data?
68. Which programming language is used in Arduino?
69. Which programming language is used in raspberry pi?
70. What is a program?
71. What is a function?
72. What are the setup and loop functions in Arduino coding used for?
73. What is the unit of PH?
74. What is artificial intelligence?
75. What is the need for camera in this project?
76. How will the authorized person be able to see the images?
77. What is machine language?
78. Which camera is used in this model?
79. Can the camera record video?
80. What type of material is used for the outer covering of the model?
81. What are the types of motor?
82. Give examples for IOT devices.

83. What are resistors?
84. What is a breadboard?
85. How to develop an android application?
86. How will the android application communicate with the device?
87. Motor is supplied with which type of current?
88. Which motor is used in this model?
89. Can the motor speed be controlled?
90. What is the use of motor driver?
91. What is a network?
92. What is the difference between wired and wireless communication?
93. What is image compression?
94. What are the formats in which images can be stored?
95. How to avail the cloud services?
96. What is a server?
97. What is a client?
98. How is the model different from what is existing?
99. How long can the data be stored in the cloud?
100. What is image processing?

3. UNMANNED AGRICULTURE VEHICLE

1. What is mean by Renewable energy?
2. Give examples of renewable source of energy's?
3. What is mean by Non-renewable energy?
4. Explain any two differences between renewable and non-renewable source of energy?
5. Give examples of non-renewable source of energy's?
6. Which is the most abundant and unlimited source of energy?
7. What is mean by non-conventional source of energy?
8. Define solar energy?
9. Mention the characteristics of solar energy?
10. What is mean by solar photovoltaic cells?
11. What is mean by Photons?
12. How photovoltaic cell works?
13. What is mean by solar radiations?
14. Define photoelectric effect?
15. What is mean by excitation?
16. Solar cells basically made up of which material?
17. What is mean by solar panel?
18. Name the types of solar panels?
19. Define solar modules?
20. What is mean by p-n junction?
21. Define doping?
22. List the advantages of solar cells?
23. Define battery?
24. Mention the types of batteries?
25. Explain working principle of battery?
26. Define anode?
27. Define cathode?
28. What is mean by electrolyte?
29. What is mean by electromotive force?
30. What is mean by voltage?
31. What is mean by current?
32. Name the units of voltage and current?
33. Define motor?
34. Explain the working principle of motor?
35. Which is the primary source of energy to the motor?
36. Mention the types of electric motor?
37. Name the components of motor?
38. Define force and torque?
39. Name the units of force and torque?
40. What are the applications of motors?
41. Define pump?
42. What are all the primary energy source of pump?
43. Explain the working principle of pump?
44. Mention the different types of pumps?
45. What is mean by DC pump?
46. What is mean by AC pump?
47. Mention the operating energy sources of pump?
48. Name the components of pump?
49. Name the types of pumps?
50. What are the applications of pumps?
51. What is mean by chassis?

52. Which is the material used fabricate the chassis?
53. What is mean by Agitator?
54. What is mean by Lance?
55. What is the function of the pressure regulator?
56. Define suspension system?
57. Name the type of suspension system used in our model?
58. Mention the types of suspension system?
59. What is mean by pesticides?
60. What is the purpose of using pesticides?
61. What are the other names of the pesticides?
62. Mention the types of pesticides?
63. What is mean by Pest?
64. What is the function of the pesticides tanks?
65. What is the capacity of the pesticide tank?
66. Which type of material used to make the pesticide tank?
67. What are sprayers?
68. What is the use of pesticides in day to day life?
69. What is mean by hydraulic manually operated sprayer?
70. What are the drawbacks of backpack sprayers?
71. What are the objectives of the unmanned agricultural vehicle?
72. What are the advantages and application of unmanned agricultural vehicle?
73. What are all the methodologies used in our project?
74. What are the factors considered while selecting a pesticide?
75. Classify the different types of sprayers?
76. What are all the components sprayer?
77. What are the factors considered while selecting the sprayers?
78. What is droplet size?
79. Why droplet size is important?
80. What are all the factors considering while spray drift?
81. What are nozzles?
82. What are the functions of nozzles?
83. What is nozzle tip?
84. What is mean by flood nozzle?
85. Why nozzle selection is important?
86. Mention the types of spray nozzle?
87. What is the purpose of chassis?
88. What is the difference between chassis and frame?
89. Define angular velocity?
90. What is mean by velocity?
91. What is mean by acceleration?
92. What is mean by speed?
93. What are the features of the Arduino Nano MC?
94. What is relay?
95. What is relay drivers?
96. Mention the software's used to programming?
97. What is the function of Hub motor?
98. What is the function of Wiper motor?
99. What is the function of DC pump?
100. What is the use of chain?

4. PHOTO ORGANIC CELL

1. What is the project about?
2. What is the aim of the project?
3. What were the apparatus used in the project?
4. How is the project useful to society?
5. What compounds or chemicals were used in the project?
6. How were the nanoparticles synthesized?
7. What was approximate cost of the project?
8. How is the DSSC constructed?
9. What was the reason for use of organic dye?
10. From where was dye extracted?
11. How was the dye used into the cell?
12. What is use of dye in cell?
13. Benefits of using organic dye over synthetic?
14. What observations can be made on utilization of organic dye?
15. What is a dye sensitized solar cell (DSSC)?
16. What dye have we used?
17. What are the components of DSSC?
18. How does a DSSC work?
19. How the glass slides are made conductive?
20. What are nanoparticles
21. Why do we use nanoparticles?
22. What nanoparticles do we use in DSSC?
23. Where are the nanoparticles present?
24. Why do we need a FTO coated glass slide?
25. How are the FTO coated glass slides placed?
26. Can this method be used in large scale?
27. What component in pomegranate leads to its utilization as dye for solar cell?
28. How does dye synthesized solar cell work?
29. What are the types of sources of energy?
30. Why is it harmful to use coal, oil, etc. as a source of energy?
31. What is solar energy?
32. What is photosynthesis?
33. What pigment is present in green plants which allow them to use solar energy?
34. What is a Solar cell?
35. Why is it better to use solar energy?
36. What problems were encountered during fabrication of cell?
37. 37. What were the results observed?
38. What was cost difference of cell synthesized by organic and synthetic dye?
39. Are there any disadvantages of using organic dye?
40. Efficiency of organic dye?
41. Are there any alternatives to organic dye other than
42. Pomegranate dye?
43. What were the observations made from the project?
44. How beneficial is this dye for the production of solar cells?
45. What is further research or development expected in this project?
46. What is the conclusion of the project?

47. What is the function of the iodole?
48. Where is the iodole present?
49. What is the counter electrode?
50. Where can we use a DSSC?
51. What are the advantages of a DSSC?
52. What are the challenges silicon based solar cells face today?
53. Why are we using TiO2 nanoparticles?
54. What is the scientific name for pomegranate?
55. 54.Which chemical is present in pomegranate which is used as dye?
56. What do you mean by renewable energy resource?
57. Why are we using dye in DSSC?
58. What do you understand by photovoltaic cell?
59. What dye have we used?
60. What is calcination?
61. What is photosynthesis?
62. What is sol-gel method?
63. What are the methods for characterization of Nano-particles?
64. Why ZnO is used in project?
65. What was the binding agent is used?
66. What is the role of KI in our DSSC?
67. What is the role of graphite in our project?
68. How can we improve the efficiency of cell?
69. What are the two approaches used to synthesize nano-materials?
70. Why are Nano-particles useful?
71. Where else are Nano-particles used?
72. Why is TiO2 used?
73. What is a multimeter?
74. Why should we switch to renewable sources of energy?
75. What are non-renewable sources of energy?
76. Where can DSSCs be used?
77. What is an anode?
78. What is a cathode?
79. What is an electrolyte?
80. What is the role of the dye?
81. What is anthocyanin?
82. What is band gap?
83. What does it mean to sensitize a cell?
84. How do photosensitive cells work?
85. What is conduction band?
86. What is valence band?
87. What are redox reactions?
88. Where does redox reaction occur in our DSSC?
89. Why do we need to characterize nano-particles?
90. What is SEM?
91. How can we slow down degradation process
92. How does a SEM work?
93. What is XRD?
94. What happens in XRD?
95. Why is the cell unstable after some time?
96. What is an X-Ray?

97. What is UV light?
98. Why do we need UV spectroscopy?
99. How is TiO_2-ZnO better than $TiO_{2?}$
100. Are DSSC's cheap?
101. Can DSSCs be used in large scale?

5. PLANT DISASE DETECTION ROBOT

1. What is the main aim of this project?
2. What are the components used in the project?
3. What is the purpose of using Raspberry Pi camera?
4. Is this robot is automatic or controlled?
5. How this robot detects the diseased leaves?
6. What is Arduino UNO kit?
7. How does the Arduino UNO kit works?
8. Which platform is used in this project?
9. Is this robot detecting diseased plant during dark?
10. What is the use of LED light?
11. Why does color sensor is used?
12. How data set is provided into the robot?
13. Does robot detect all types of plant diseases?
14. How does it sends SMS to the register mobile?
15. Does the robot affect the environment?
16. Does an LED light affect the plants?
17. How many sensors are used in the robot?
18. Which sensors are used in the robot?
19. Which model is used to detect the color sensor?
20. Is this time saving robot?
21. Which software takes data set?
22. Is data set is necessary for detecting sensors?
23. How data set is compared?
24. Does this robot runs on same technique during night?
25. What is the use of DTH11 in temperature and humidity sensor?
26. What is DTH11?
27. How can be robot detects infected plant through humidity sensor?
28. How can be robot detects diseased plant through temperature sensor?
29. How can be robot detects diseased plant through color sensor?
30. Which are the colors used in the color sensor?
31. Which RGB color sensor are used in this robot?
32. Which is the cloud platform is used to send the sensed data to the cloud?
33. What is the use of cloud platform?
34. How it detects whether the plant is diseased or healthy?
35. Mention the range of battery life of solar power?
36. Does the data set of temperature depends on particular location?
37. Does the data set of humidity depends on particular environment?
38. What is data acquisition?
39. Which microcontroller is used in the robot?
40. What is the use of thing Speak platform?
41. Why leaves change color?
42. Which technique is used to send the data from cloud platform to a Arduino UNO?
43. Does the robot is suitable to detect all type of diseased leaf?
44. What is Performance evaluation?

45. On what basis the robot detects the diseased leaves?
46. How color sensor works?
47. What happened when the image is not recognized properly?
48. How does the motor works?
49. What is the outcome of the project?
50. What are plant beds?
51. What is full form of IoT?
52. Define IoT?
53. Why this project is based on IoT?
54. What is the use of IoT?
55. What device is IoT?
56. How do sensors collect data?
57. How much data do sensors collect?
58. What technologies are used in IoT?
59. Which software is used for IoT?
60. Mention some literature survey of this project?
61. What are the steps of image processing?
62. What is image processing?
63. What are the steps of mean shift clustering algorithm?
64. What is the future scope of this project?
65. Write the flow chart of image processing?
66. Write the formula for precision?
67. Why the colour changes from green to yellow?
68. Which colour sensor is preferred here?
69. Where we get the value of colour that are recorded?
70. Write some colour values?
71. Which cloud platform is used?
72. What is proposed system?
73. What is the play of plan health in agriculture?
74. Does any limitation occur in this project?
75. Which are the limitations of this project?
76. Which are the disadvantages of colour sensors?
77. Does the robot detect diseases in all climatic conditions?
78. Does the robot works on low solar power?
79. What happens when the battery life of solar became low?
80. What happens when the network connection became low?
81. What is the role of agrirobot?
82. If it is Robot is autonomous?
83. Where does the camera placed in the robot?
84. What is the role of microcontroller?
85. What do you mean image processing in the plant disease detect Robot?
86. After image capture the image turns to which colour?
87. What are the disadvantages of previous system?
88. What are the advantages of implemented system?
89. Which processor used in Robot?
90. How the robot does is controlled?
91. Mention some of the image processing steps?
92. What is proposed system?
93. What do you mean by image segmentation?
94. What do you mean by image processing?
95. How does open cv based leaf diseases detection
96. Which software is used to run Robot?

97. What is the future scope of the robot?
98. What do you mean feature extraction?
99. Which cloud platform is used in the robot?
100. What is the role of humidity?

6. SOLAR PESTICIDES GRASS CUTTER

1. What is Renewable energy?
2. What is Non-Renewable energy?
3. Name few Renewable energy source?
4. What is solar energy?
5. How do PV cells work?
6. State the importance of Renewable energy?
7. What is battery?
8. What is pump?
9. How doe's solar grass cutters work?
10. How does solar pesticide sprayer work?
11. What is the difference between Renewable and Non-Renewable energy?
12. Give some reasons for energy crisis?
13. What is DC motor?
14. What is fabrication?
15. What is Solar cell?
16. What are the benefits of using Solar grass cutter?
17. What are the benefits of using Solar pesticide sprayer?
18. What are PV Cells?
19. Name the types of grass cutter available in market?
20. What is gasoline grass cutter?
21. What is electrical grass cutter?
22. Why pesticides are sprayed in agriculture?
23. What are pesticides?
24. How do farmers spray pesticides to crops?
25. Explain the benefits of solar pesticide sprayer?
26. In India, how long the solar energy is obtained in a year?
27. What do you mean by multipurpose?
28. Who constructed the first Solar cell?
29. Which is the cleanest Renewable energy source?
30. What is the expected life span of solar panel?
31. List the uses of solar cells?
32. What are bio-pesticides?
33. What is the main aim of this project?
34. What are the benefits of solar energy?
35. How do we get solar energy?
36. What are the advantages of solar energy?
37. What are the disadvantages of solar energy?
38. What are the uses of solar energy?
39. What is the rate of solar energy reaching the earth's surface?
40. Who invented Grass cutter?
41. List the types of pump?
42. How much capacity battery is used in the project?
43. What kind of pump is used?
44. How much pressure will be caused by the pump?
45. How much current or voltage is required for the pump to perform?
46. What is the specification of DC motor used?
47. What is the specification of solar panel used?
48. List the components used in the project?
49. What is sprayer?
50. List the types of sprayer?

51. What are the drawbacks of using sprayers other than solar operated sprayer?
52. When and Who invented first battery?
53. What is the distance between the blade and ground level?
54. What is the theoretical discharge of pump?
55. What are the advantages of solar pesticide sprayer?
56. What is the Applications of Solar pesticide sprayer?
57. What the advantages of renewable energy?
58. What are the disadvantages of nonrenewable Energy?
59. What is SoexhaWhat b?
60. What is Solar panel?
61. Where we get solar energy?
62. What is the rate of rotation of spindle attached to DC motor?
63. How do pump works?
64. What is the full form of DC pump?
65. Is usage of solar energy is cost effective?
66. Is solar energy is exhaustible?
67. Will solar energy causes pollution?
68. Can we use solar energy to produce electricity?
69. What are the advantages of solar grass cutter?
70. List few Non-Renewable energy sources?
71. What types of blades are used to cut the grass?
72. What are saw blades?
73. Can we run a vehicle by using Solar energy?
74. List some of the inventions made by using Solar energy?
75. Which is the widely available Renewable energy?
76. Is, solar energy is ecofriendly?
77. What is the efficiency of a solar panel?
78. Why the solar panel has less efficiency?
79. Why the efficiency of solar pannel decreases with increase in temperature?
80. What are the methods of increasing efficiency of a solar panel?
81. Is solar pannel contains semiconductor materials?
82. What are semiconductor materials?
83. What are the types of Semiconductors?
84. What is P-type semiconductor?
85. What is P-type semiconductor?
86. Which semiconductor material is usually used in solar panels?
87. Is maintenance of solar panel is necessary?
88. What is the function of a pump?
89. Can we meet the energy demand by using Solar energy?
90. What is the importance of energy?
91. Why do we need to save energies?
92. What are the benefits of limited usage of Non-Renewable energy?
93. How can you avoid the environmental pollution?
94. Who is the backbone of our country?
95. Is mechanization in agriculture is necessary?
96. Why mechanization in necessary in agriculture?
97. Why many farmers are still not adopting modern method of agriculture?

98. How to make the farmers to implement new technologies?
99. How the economy of the farmers increases by mechanization of agriculture?
100. What are the benefits of multipurpose solar pesticide sprayer and grass cutter?

7. SELF BALANCING ELECTRIC BIKE

1. What is drone?
2. What is UAV?
3. How much can drone carry?
4. How long will high tech drone fly?
5. How high and far can drone fly?
6. Which sensors do you use to stabilize the drone?
7. Which camera can be used?
8. Which drive technology do you use?
9. What happens if drone crashes?
10. What makes your drone so unique?
11. Are the aircraft easy to fly?
12. Can drones also be used indoors?
13. Can the drones battery also be charged on the road, without outlets?
14. Is there any prohibition in operating the drone?
15. Why are there drones with 4,6 or even 8 motors?
16. How can we increase the communication range of a commercial drone?
17. Can we connect multiple UAVs in adhoc manner?
18. Who suggests rules for the flights of UAVs?
19. How do you view plant health data? Do we need any special camera?
20. How can we export my map to compare it to yield maps, soil maps and other data?
21. How drones can be used in agriculture?
22. What is the best drone for agriculture?
23. How do drones help farmers?
24. What are the components used in making drone?
25. What are brushless motors?
26. How does the motor work?
27. What is the principle behind working of motor?
28. What is the application of drone technology in the architectural and build environmental field?
29. Where to find images datasets from crop field?
30. What are the software used in flight controller and raspberry pi?
31. How does raspberry pi works?
32. How does pi camera work?
33. What is the formal name for drone?
34. How many not jets do drone have?
35. How does infrared technology help farmers?
36. What are the advantages of agricultural drone?
37. What are the disadvantages of the agricultural drone?
38. What is the aim of this project?
39. What are the challenges of this project?
40. What are the problems faced by farmers?
41. What is FAA?
42. What are the drawbacks of agricultural drone?
43. Explain the block diagram of drone?
44. What is the working of flight controller?
45. What are gyroscopes?
46. What is accelerometer?
47. What is ESC?

48. What is the working of ESC?
49. What is the principle behind the working of propellers?
50. Why raspberry pi is used?
51. What are the different models of raspberry pi?
52. What is the weight of payload used?
53. How the sprinklers are fixed?
54. How much amount of pesticides can be used in spraying?
55. What are the main causes of soil erosion?
56. How does soil erosion occur?
57. What are visual navigation?
58. What is GPS?
59. What is autonomous refueling?
60. What is aerial refueling?
61. What are the different ways of aerial refueling?
62. What are autonomous flights?
63. What is attitude estimation?
64. Draw the state diagram for the motion of UAV?
65. What is SSCM?
66. What is PA?
67. What is DSS?
68. What is precision agriculture or satellite farming or site specific crop management?
69. What are the goals of precision agriculture research?
70. What is the storage capacity of liPO battery?
71. What are BLDC?
72. Explain agricultural wonder drone system using micro controller 8051 with block diagram?
73. Explain agricultural drone system using GPS with block diagram?
74. Explain agricultural drone system using at mega 328 with block diagram?
75. Explain the working of Atmel 644PA?
76. Why does ESC used?
77. What is the working of nossel?
78. Describe a couple of the government efforts to handle agricultural surpluses that have arisen from its long standing price support programs?
79. What are the applications of genetics in agriculture and what are some examples?
80. What is the role of agrochemicals in increasing food production?
81. Is the economic growth of developing countries more important than protecting the environment?
82. Why does farming lead to hierarchy? What does hierarchy allow?
83. What are the short run problems of farmers?
84. Why did farming lead to larger populations?
85. Where can you find good marketing research materials if you are a farmer?
86. What is commercial agriculture?
87. What is the difference between vegetative planting and seed agriculture?
88. How does live video streaming works?
89. What happens if fertilizers increase in soil?

90. What is irrigation?
91. What is soil erosion?
92. What are agricultural marketing?
93. Why are Indian farmers facing problems?
94. What are prevailing problems of Indian farmers?
95. What is the final solution to eliminate the problems faced by farmers?
96. What is servo meter and how does it work?
97. What are the workings of water tank?
98. What more can be added on the drone to make it work effectively?
99. What is the minimum cost of agricultural drone?
100. How can we implement this in our Karnataka?

8. SEA SAND CONCRETE FOR GREEN INDIA

1. What is cement?
2. What is cement is made up of?
3. What are types of cement?
4. What is the average particle size of cement?
5. What is the expire date of PPC cement?
6. What is the colour of concrete when it is dry?
7. Types of concrete?
8. How concrete are made?
9. What is sea water made up of?
10. What is lightweight concrete?
11. What is the use of lightweight concrete?
12. What is coconut shell charcoal?
13. How do coconut shell charcoal made?
14. What is coconut shell made up of?
15. What is difference between M sand and river sand?
16. What is river sand?
17. What is specific gravity of sea sand?
18. What is fineness modulus of sea sand?
19. What is chloride content in sea sand?
20. What is sea sand used for?
21. What is fine aggregate?
22. What is fine aggregate used for?
23. What is coarse aggregate?
24. What is size of coarse aggregate?
25. What is coarse aggregate made up of?
26. What is difference between fine and course aggregate?
27. What is the use of coarse aggregate in concrete?
28. What is the purpose of aggregate in concrete?
29. What are the properties of aggregate?
30. What is the type of coarse aggregate?
31. What is natural aggregate?
32. What is density of aggregate?
33. What are admixtures?
34. What is unit of specific gravity?
35. Why specific gravity is is so important?
36. What is specific gravity of sand?
37. What Is water?
38. What is property of water?
39. What are chemical and physical properties of water?
40. How to tell the quality of M sand?
41. How much water is in earth?
42. What is composition of sea sand?
43. Why are beaches made of sand?
44. Why sand is important?
45. How sand is formed?
46. What is function of sand?
47. Does sand grow?
48. What are the properties of good sand?
49. Why can't plants grow in sand?
50. What is ngt?
51. What is mix proportioning?
52. What is weighing?

53. What is mixing of concrete?
54. What is placing of concrete?
55. What is curing of concrete?
56. What are types of curing?
57. Why curing is important?
58. How many days curing should be done?
59. How long does cement takes to settle down?
60. What is compaction of concrete?
61. Why compaction is required in concrete?
62. What are methods of compaction?
63. What are the factors influencing the compaction?
64. What is setting time in cement?
65. What is meant by initial setting time of cement?
66. Why gypsum is added to cement?
67. Which cement is best in India?
68. What do you mean by sieve analysis?
69. What is sieve analysis in soil?
70. What is I S sieve number?
71. What is hardened concrete?
72. What is fresh hardened concrete?
73. What are the properties of hardened concrete?
74. What is shrinkage?
75. What is creep?
76. What is compressive strength in concrete?
77. What is split tensile strength?
78. What is fresh concrete?
79. What is the workability of concrete?
80. What is segregation?
81. What is concrete batching?
82. What is concrete slump test?
83. What do you mean by slump?
84. What causes slump?
85. What compaction factor test?
86. What is vee-bee test?
87. What is compatibility?
88. What do you mean by M25?
89. What is minimum curing period?
90. What is the origin of sea sand?
91. What do you mean by raw material?
92. What are the essential quality of concrete?
93. What do you mean by emission?
94. What are co2 emissions?
95. What do you mean by stamped concrete?
96. What do you mean by self-levelling concrete?
97. What do you mean by roller compacting concrete?
98. What is self-compacting concrete?
99. What you mean by polymer modified concrete?
100. What are the uses of polymer concrete?

9. BLOOD BANK AUTOMATION A- LIFE

1. What is Anveshana?
2. What is the objective of Anveshana?
3. What is your project about?
4. What is automation?
5. What is blood?
6. What is the function of blood?
7. Does everyone know about their blood group?
8. Why blood is divided into groups?
9. What are the different blood types?
10. are blood groups divided based on thickness?
11. On what basis is the blood group classified?
12. What are the contents of the blood?
13. What is ABO blood group system?
14. Which blood group is the universal donor?
15. Which is the rarest blood group?
16. Can everyone donate the blood?
17. What are the procedures to donate the blood?
18. What is the aim of the project?
19. What is the objective of this project?
20. Why did you select this project?
21. What is the current method to identify the blood group?
22. What is the drawback of current method?
23. What is the advantage of this method over current method?
24. How much time needs to identify the blood group using current method?
25. Is existing method is time consuming?
26. Is existing method is manual process?
27. Is this method helpful for the society?
28. Can we avoid manual requirement from this process?
29. What are the components used?
30. What is the methodology of the project?
31. What is blood sample?
32. What is LED?
33. What are the types of LED?
34. What is diode?
35. What are the types of diode?
36. Which LED you are using?
37. What is photodiode?
38. What are the types of photodiode?
39. Which photodiode are you using?
40. Why photodiode is required?
41. What is OPT101?
42. Why are you using OPT101 only?
43. What is the advantage of OPT101?
44. What is trans impedance amplifier?
45. What is slide?
46. What is voltage?
47. What is efficiency?
48. How do you convert current to voltage?
49. What is current?

50. Can we use LED bulb?
51. What is IR LED?
52. What is LASER light?
53. How photodiode works?
54. What is intensity?
55. What is implication?
56. What is wavelength?
57. What is frequency?
58. What is bandwidth?
59. What is absorption?
60. What is supply voltage?
61. What supply voltage is required?
62. What is accuracy rate?
63. What is optical fibre?
64. How optical fibre works?
65. What is the use optical fibre in this method?
66. How do you differentiate blood groups based on voltages?
67. What kind of supply are you giving?
68. Based on what factor of blood we get different intensities?
69. Do we get different voltages for different blood groups?
70. Do we get accurate output?
71. How do you give connection between the LED and Photodiode?
72. How much time will it take for the entire process?
73. What is antigen?
74. What are the types of antigens?
75. What is an antibody?
76. What are the types of antibodies?
77. What is Rh factor?
78. What is RH positive and negative?
79. What is the difference between existing method and this method?
80. Is it innovative?
81. Is it eco-friendly?
82. Do we get this kind of product in the market now?
83. What is the time required for existing method?
84. What is the outcome of this proposal?
85. What are the advantages?
86. What are the disadvantages?
87. What are the challenges for this process?
88. Is it ok if we get wrong output once?
89. What is the scope of this project?
90. What is the cost of the project?
91. What about time scheduling?
92. What features can we add further?
93. Who is our customer?
94. Can we use this device in our home?
95. To whom it is beneficial?
96. Can we use this in first-aid kit?
97. Is this product is commercial?
98. How to approach this product to the market?
99. Why should people buy this product?
100. Is it cost worthy?

10. HYBRID PVT SYSTEM FOR RURAL

1) What is energy?
2) What is PVT system?
3) What is solar energy?
4) What are the uses of solar energy?
5) What are the advantages and disadvantages of solar energy?
6) What is solar cell?
7) What is the type's solar
8) What is mono-crystalline solar panel?
9) Efficiency of mono-crystalline panel
10) What is poly-crystalline solar panel?
11) Efficiency of poly-crystalline solar panel
12) What is amorphous solar panel?
13) Efficiency of amorphous solar panel
14) 14) What are the advantages and disadvantages of solar panel?
15) Mention the factors to determine efficiency
16) What is the working principle of PVT?
17) Define solar water heating
18) What is minimum temperature of heat required for human bath?
19) What is multimeter?
20) What is the device used to measure the solar radiation?
21) Which device is used to measure the wind speed?
22) How to measure the temperature?
23) What is the use of sensors?
24) Define mass flow rate
25) Why we require the copper pipe in the solar panel?
26) Why we require the sheet coated with black paint?
27) Why you should use only a black paint for sheet?
28) What do you mean by hybrid PVT system?
29) What are the types of water based PVT systems?
30) What is the use of hybrid PVT solar panel?
31) Explain the procedure of hybrid PVT system
32) How do solar panel works?
33) What is conductor?
34) What is semi-conductor?
35) What are the types of conductors?
36) What is an insulator?
37) What do you mean by insulation?
38) Is it necessary to use insulation for hybrid PVT system? Why we should use?
39) Will solar panels generate electricity during cloudy, rainy or in snow times? What about in the night?
40) Will we get same efficiencies in all the seasons?
41) How will switching to solar energy helps the budget better?
42) Is solar panels are difficult to maintain? What are the components of hybrid PVT system?
43) How solar energy does benefits the environment?
44) How will thermal energy being transferred?
45) Define power
46) What is the S.I unit of power?

47) Define voltage
48) What is the S.I unit of voltage?
49) Define current and what is the S.I unit of current?
50) What is the electricity generation and water heating capacity of hybrid PVT system?
51) What is heat?
52) How do you sense the heat and give an example?
53) How do solar photovoltaic panels work?
54) Do we need to install solar batteries with solar power system?
55) How you got this idea? have you taken any references?
56) Is it a new idea or it already exists?
57) Is the material used for this system will easily available?
58) Do we want to clean the solar panel regularly?
59) If we increase the mass flow rate more than the given range can we get the same heat of water?
60) Can we use this system for high electricity generation?
61) What is collector box?
62) What is the use of collector box?
63) What is anemometer? What is the use of it?
64) What is meant by ambient temperature?
65) What is size or dimensions of your System?
66) What is average solar radiation that you observed in your region?
67) What is irradiance?
68) What do you mean by solar irradiance? Knhjgvis there any types in it?
69) Can you tell about where India is located? and is India is good for getting maximum solar radiations?
70) What are the types of solar energy technology?
71) What's the difference between photovoltaic and other solar energy technologies?
72) Can I use photovoltaics (PV) to power my home?
73) How do we know if we have enough sunlight for PV?
74) How big a solar energy system do we need?
75) Why should we install these types of systems?
76) Can a solar water heater replace an electric or gas water heater?
77) Can we use a solar water heating system to heat a swimming pool?
78) How much money will this system save on the utility bill?
79) How do solar panels work at night?
80) Are the solar panels toxic?
81) Do solar panels leak toxic chemicals?
82) What toxic chemicals are in solar panels?
83) Do solar panels ruin your roof?
84) Will cracked solar panels work with same efficiency?
85) Are solar farms dangerous?
86) Do solar panels contain mercury?
87) How long does the solar panels last?
88) What are the types of solar hot water system?
89) By using this system can we reduce using fossil fuels? Is it eco-friendly?
90) How many solar panels do the average house needed?

91) What do you mean by solar space heating?
92) What do you mean by solar pool heating?
93) What type of insulation is required for installing hybrid solar PVT system?
94) Do we want to connect any batteries for getting electricity generation for domestic uses?
95) What is energy?
96) What are the types of energy?
97) By installing the solar panels on the roof of houses, do we get high temperature than the actual temperature?
98) What type of panel used for your project?
99) Which panel will we get a low cost?
100) Can you give us the full form of PVT system?
101) What is the total cost of your project?

11. AIR REFORM

1. What is Air Reform?
2. How much water is available in the atmosphere?
3. How do you extract water from air?
4. Why is it necessary to extract water from air?
5. What is Dampness?
6. On what principles does the machine work?
7. What are the climatic conditions required to extract water from atmospheric air?
8. How much of water can be extracted from atmospheric air?
9. How many days will it take to extract water necessary for a family?
10. What happens if we extract all the water from the atmosphere?
11. When water is extracted from air will atmospheric air become dry?
12. Can we use this machine for large scale water production?
13. Which is the suitable region for water extraction from air?
14. Can we extract water in desert regions?
15. Can we extract water in hill regions and coastal regions?
16. What are the instruments used in the machine?
17. Is the water that is generated from air safe for drinking?
18. How will the machine purify the impurities present in air?
19. What is dew point?
20. What is the temperature required to extract water?
21. What are filters?
22. How many filters are needed to get pure water?
23. What are the types of filters used?
24. What is the size of filters used?
25. Is one filter sufficient for purification?
26. Can filters be replaced?
27. What is the frequency of changing filters?
28. Are the filters easily available in market?
29. What is the Cost of the machine?
30. What is the Cost of maintenance of the machine?
31. What is the frequency of periodic maintenance?
32. What is evaporating coil?
33. What is the material of evaporating coil?
34. How much temperature will the coil hold?
35. Does the machine harvest instant water or will it take time to get water?
36. What is compressor?
37. What is the capacity of compressor?
38. What is the function of compressor?
39. What is coolant?
40. What type of coolant is used?
41. Why coolant is used in the machine?
42. What are the properties of the coolant?
43. Is coolant harmful?
44. What is dew point?
45. Why is it necessary to cut down the temperature below dew point?

46. How to eliminate impurities from water extracted?
47. Can the water be extracted in industrial area?
48. In industrial are the pollution content in air is more. How to obtain pure water?
49. What are the parameters required to obtain pure water?
50. What parameters are tested for safety parameter of water?
51. What is the source of energy for machine?
52. Can we use solar energy for the machine?
53. How solar energy works?
54. Can we use artificial light for solar energy?
55. Do solar panels work in shade?
56. How much solar energy is required to extract water?
57. What sized solar panel is required?
58. What is the capacity requirement of the solar panel?
59. How much units of energy will the machine consume?
60. If solar panel is used how can water be extracted from the machine in rainy seasons or when there is no sunlight?
61. Can we use both solar and electricity in the machine?
62. What is the overall consumption cost?
63. How many units of current is required to generate 1 lt of water?
64. Why this machine is convenient than normal method?
65. How many litres of waters is extracted in 1 day?
66. Why only 10 micron sized filters are used?
67. Why jute filter is used?
68. How many litres of water can be extracted in desert?
69. Will atmospheric temperatures decides the amount of water vapour present in the atmosphere?
70. Does the machine needs human interactions for its functioning?
71. Where is the water collected in the device?
72. Where is the machine needed to be placed?
73. Should the machined be placed in the direction of wind?
74. Is the machine suitable for places like Bangalore having very less space for air flow as it is very much crowded?
75. What are the drinking standards according to WHO for safe drinking?
76. Can the machine be automatic with less or no human interaction?
77. What is the validity of the machine?
78. How much does it cost for maintenance?
79. Is the machine portable?
80. Will the machine reduces dust particles and other in atmosphere?
81. What are hydrochloroflurocarbon?
82. What are harmful effects of hydrocholroflurocarbons?
83. What hydrochloroflurocarbons are used?
84. What is the material used for outer body of the machine?
85. Should the outer body of the machine withstand high temperature?
86. What is pH?
87. What are total dissolved solids?
88. What is hardness of water?

89. What is the total amount of portable water available?
90. What is nanotechnology?
91. What are the benefits of nanotechnology filters?
92. Is the nanotechnology filters costly?
93. What is condenser?
94. Can we further purify the water extracted from air?
95. What is Ceramic candle?
96. How does ceramic candle works?
97. What is the cost of ceramic candle?
98. If solar panel is used as a source of energy can it be stored in batteries for further use?
99. Will the machine work in vegetation regions?
100. What is the overall impact of the machine on environment?

12. WSN BASED SERICULTURE

1. What is Anveshana competition all about?
2. Why do we school students need to explain the engineering projects?
3. Will you people be with us during the competition?
4. Do we get any certificates for this?
5. When is the competition?
6. What is the scientific name of silkworm?
7. What is the scientific classification of silkworms?
8. Why silkworm feed only on mulberries?
9. What is the scientific name of mulberry eaves?
10. What is the procedure in sericulture?
11. Who are the largest producers of silk?
12. Which are the states in India, are involved in sericulture practice?
13. How does sericulture helps in economic development?
14. Does this project involve both hardware and software?
15. What are the software and hardware components that we will be using in this model?
16. What are the environmental factors that influence the growth of silkworms?
17. What happens if the environmental factors vary?
18. How will the variations in environmental factors be sensed?
19. What is shell ratio?
20. What is the colour of the cocoon?
21. What is cocoon?
22. How many days will they take to grow?
23. How long will the silkworm stay in the cocoons?
24. Are silkworm's boiled alive?
25. Why is silk so expensive?
26. Do silkworms bite?
27. What is IoT?
28. Why should we boil cocoons?
29. What is cloud?
30. What happens in the cocoon?
31. Will silkworms drink water?
32. How many cocoons are required to make a fabric?
33. Can you make silk without killing the worms?
34. Why don't we wait for silk moth to hatch and then collect the cocoons?
35. How is the proposed project helpful for farmers?
36. What is DHT11sensor?
37. What is the cost of DHT 11sensor?
38. Where is the DHT 11 sensors used?
39. Full form of IoT?
40. What is the full form of WSN?
41. What is programming?
42. What is NODEMCU?
43. What is the size of this proposed project?
44. What do silkworm seat?
45. What is Osage orange?
46. What is the length of the silkworm?

47. What is the length of silk strand obtained from each cocoon?
48. What is the full form of OLED and LCD?
49. What is the difference between LCD and OLED?
50. What is pixel?
51. What is the use of Node MCU in our project?
52. What does Blynkclouddo?
53. Are there different types of silkworms?
54. Why only Bombay Mori is used in the proposed project?
55. What is full form of LDR?
56. What is the use of LDR?
57. Will newly hatched silkworm eat mulberry leaves?
58. Within how many days will the silkworm eggs hatch?
59. How many eggs will female silkworm moth will lay?
60. How does newly hatched silkworm look like?
61. What is the length of newly hatched silkworm?
62. How does the newly hatched black string like silkworm change to white silkworm?
63. What do you mean by molt?
64. What is full form of GSM?
65. What does GSM module do?
66. How long do silk moths live?
67. Will the silkworm inside the cocoon eat?
68. What happens to the silkworm inside the cocoon?
69. What is the shell ratio of cocoon?
70. What are the different silk types and its corresponding silkworm historical
71. What are the stages of production?
72. What are the diseases that can affect mulberry plants?
73. What is powder mildew?
74. What are leaf spots?
75. What are the diseases that can be caused to a silkworm?
76. What is zebrine?
77. What is Flacherie?
78. What is Muscardine?
79. What is Glasserie?
80. What are the pests of silkworm?
81. What are Uziflies?
82. What are demisted beetles?
83. How many cocoons are required to produce 1kg of silk?
84. What is cocoon drying?
85. What is cocoon boiling?
86. What is brushing?
87. What is reeling methods?
88. What are the merits of sericulture?
89. Who discovered silkworm's silk?
90. What is horticulture?
91. What are the uses of silk?
92. Artificial production of silkworm
93. Who is the largest consumer of Indian silk?
94. Health hazards in sericulture
95. What is cocoon?
96. What makes a cocoon?
97. What is another name for chrysalis?

98. Can a caterpillar die in the cocoon?
99. What is the difference between cocoon and chrysalis?
100. What are the characteristics of silk?

13. SPIDEY ROBO POOH HONEY EXTRACTOR

1. What is the project idea proposed for?
2. What is the project used for?
3. How are the bees safeguarded?
4. How the process is done so?
5. How can the extraction be done without harming the bees?
6. Is the vapour produced inside the sack harmful for bees?
7. What is the vapour made up of?
8. What is the separation done?
9. What is done to bees after separating them?
10. What is done after storing them in a cage?
11. What is apiculture?
12. Is the honey processed in the bee farms is unnatural?
13. Why bee farming is necessary?
14. Why are the bees so important?
15. Why are they called as building blocks?
16. What are the bees go extinct?
17. How bees help in are maintain our eco-system?
18. How asexual process is done through bees?
19. What is nectar?
20. Why is nectar from the flower only needed?
21. What can be done in apiculture to the bees?
22. What will the bee produce in that hive?
23. What is bee wax?
24. Why is bee wax necessary to cover the honey?
25. What is bee wax used after extraction of honey?
26. Is the bee wax edible?
27. How long can the honey be stored?
28. Why do we need to use this idea to extract honey?
29. Why is the traditional way harmful foe the bees?
30. Where is this proposed idea more useful?
31. How many types of species of bees are present?
32. How many species went extinct?
33. How many types of species of bees are present in modern world?
34. Is there any other ways of separating the bees?
35. Why by only queen bee?
36. The proposed method is harmful for extraction?
37. What are the components used for this project idea?
38. What is Arduino?
39. What is Arduino board?
40. How Arduino board functions?
41. How can the process be done?
42. What software is used for coding or programming?
43. Why use of Arduino?
44. What type of operating systems (OS) Arduino supports?
45. What are the types of microcontrollers present on Arduino?
46. Why this type of microcontrollers only?
47. Why did you use Arduino?
48. What version of Arduino is used?
49. What is Arduino mega?
50. How many input output pins are present on ATmega328P?

51. Specifications of these pins?
52. Other specifications of ATmega328P?
53. What is the sack made up of?
54. What helps the sack to cover the hive?
55. What helps the model to stick on the model?
56. With help of what will the hive is cut into the sack?
57. What is dc motors used?
58. What is BLDC?
59. What is the specification of generic motors used?
60. Why use of generic motors?
61. What is the type of power supply used?
62. Why not use of battery?
63. What do you mean by limited amount of energy?
64. What is the capacity of battery used?
65. Why not use of small battery to power up the model?
66. How many generic motors are used?
67. What type of dc motors is used?
68. What is the rpm produced by this motor?
69. What are the types of dc motors available?
70. What is Permanent magnet dc motor?
71. What is Series dc motor?
72. What is Shunt dc motor?
73. What is Compound dc motor?
74. Is there any weakness for this type of motors?'
75. What is RPM?
76. What is the range of typical dc motor?
77. What is horse power?
78. Instead of ac supply which type of battery can be used for dc motors?
79. What module is used to run this dc motors?
80. How many dc motors is needed?
81. How many servo motors are needed?
82. What is the working angle of servo motors?
83. How is the power supplied to the module?
84. Why is not Bluetooth controlled?
85. Without wireless control how it is controlled?
86. How many Arduino boards are required?
87. Can one Arduino board control all functions used in the prototype?
88. What is the bee hive size that robot can handle?
89. Can the prototype withstand big hive?
90. After collecting the hive what is done?
91. Where will the honey be processed?
92. What happens to the bees?
93. Will the eco-system be balanced?
94. Will the population of the bees increase?
95. Will the prototype be available to all person in the city?
96. Where is the honey stored after processing it?
97. What is the role of the bees after the extraction process?
98. If the bees were to be extinct what is the situation of the earth?
99. How are bees helping us feed?
100. What is the end product of extraction process?

14. STUDENTS EYES CLOSURE AND YAMINI

1. What is the main use of this project?
2. What are the conditions of the students?
3. What is the exact approximate distance we have to take?
4. Which microcontroller is the heart of this project?
5. Whether this system is limited to detect one target or not?
6. What is the use of threshold value in this project?
7. Which distance we have to consider the value of threshold?
8. By which system this project has done?
9. Now this technology is useful in schools or not?
10. How to recognize the student whether the student feels asleep?
11. This project is mainly based on which controller?
12. Now a days this technology is getting more advanced or not?
13. how facial expressions will find?
14. Whether real time continuous image will obtain?
15. What are the keywords for your project?
16. What is the aim of the project?
17. Is any kind of technique applied here?
18. How many micro controllers were used?
19. How much distance it will targeted?
20. What kind of micro controller is used?
21. What is the main function using in this?
22. How much RAM and ROM it occupies?
23. How it will detect the condition of the eyes?
24. Name any one hardware requirement used for this?
25. Name any one software used for this?
26. What is NUMPY?
27. How the detection will exist here?
28. What concept we used to vary the brightness?
29. Name any one application used?
30. Name any 2 advantages?
31. Name any disadvantage?
32. What makes this project as user friendly and durable?
33. Is embedded software can be used in this?
34. How much power is given to adaptor?
35. What detection system will do?
36. Wow the system is going to work?
37. How NUMPY will work in the system?
38. What are the applications of this system?
39. What are the advantages of your projects?
40. Where does this project can be used?
41. What is the use of NUMPY?
42. Why python?
43. How much space that hard disk occupies?
44. Use of LDR?
45. Full form of LDR?
46. How it will identify the students?
47. Which supply is given to this project?
48. What is microprocessor?
49. What is micro controller?
50. Which works were related to drowsiness detection?

51. For the automatic controlling of the light in the classroom which register is more used?
52. How to determine the position?
53. of the eyes?
54. Briefly explain about the block diagram?
55. Whether any signal will detect among the students?
56. Which measuring meter is used to detect the sleeping of a person?
57. Whether this project is used for any vehicles?
58. By which system this project plays important role?
59. which system is an interrelated to The Internet of
60. Things (IOT)?
61. What is the function of IOT?
62. What is the full form of IOT?
63. What is NUMPY?
64. Why LDR is used?
65. A: LDR is used for light led strip.
66. What is full form of LDR?
67. What is the main component of the developed system?
68. What are microcontrollers and microprocessors?
69. What is the range of the sensors on the device?
70. How many microcontrollers are used in this project?
71. What is the supply voltage provided to the adaptor?
72. How much Ram and Rom will it contain?
73. How does it detect sleeping/drowsy students?
74. How is the alert system used?
75. What is an LDR?
76. Why is an LDR used in this project?
77. What is the hard ware instruments required?
78. What is the software used?
79. What is numpy?
80. Why is numpy preferred in these projects?
81. What is the aim of this project?
82. Which microcontroller is used?
83. What is the main function of the microcontroller?
84. How does the detection work?
85. HOW DO WE UNDERSTAND THE CONCEPT OF VARYING BRIGHTNESS IN THIS PROJECT?
86. NAME ONE APPLICATION FOR THIS SYSTEM.
87. WHAT ARE IT'S(DEVICE'S) ADVANTAGES?
88. WHAT ARE THE MAJOR DISADVANTAGES OF THE SYSTEM IF ANY?
89. WHAT MAKES THIS PROJECT DURABLE AND USER FRIENDLY?
90. CAN EMBEDDED SOFTWARE BE USED IN THIS?
91. WHAT APPROACH IS USED FOR THE EARLIER PHASES OF THE DESIGN AND DEVELOPMENT OF THE SYSTEM?
92. WHY CHOOSE TO DO THIS PROJECT?
93. What is IPPG?
94. How it will work?
95. What is RGB signal?
96. Why RGB is used
97. Why RGB is primary colour?

98. How does the system determine the student's face and eyes?
99. What is the object detection techniques used?
100. What were the steps involved in the making of this project?
101. How are all the interfaces connected?
102. How can this project be further upgraded?
103. How does the system understand the condition of the eye in real time?

15. SUSTAINABLE TEXT CONVERTER

1. Explain the model in brief.
2. Applications of the project.
3. Why raspberry?
4. How different is raspberry pi than other boards?
5. What is google API?
6. Why google API?
7. How google API works?
8. Can't we use other than google API?
9. Which library is used in google API?
10. What is API?
11. Which are the different clouds that can be used in programming?
12. How the input is given to raspberrypi?
13. Can we use other sort of mic to this model?
14. What sort mic is used in this model?
15. What might be the range of mic?
16. What are the different types of speech recognition present?
17. Which type of SR is used in the model?
18. What is raspberry pi?
19. How raspberry pi helps in speech processing?
20. Which programming language is used to program raspberrypi?
21. Which are the different versions of raspberry pi in market?
22. Which version of raspberry pi is used?
23. Which operating system is used in raspberry?
24. How to install OS to raspberry piboard?
25. How does mic help in taking the input to raspberrypi?
26. Why, only python coding used?
27. Which are the libraries used by raspberrypi?
28. What is the memory of raspberry pi board used in the model?
29. What is the memory consumed by the program?
30. What is the time required to get out put on LCD?
31. What is LCD?
32. Why LCD is used?
33. How many types of LCD's are present?
34. Which type of LCD is this model?
35. How many pins are used?
36. What is the version of the LCD?
37. Does the code vary for different LCD's?
38. How many types of modes are there for transferring of data to LCD?
39. Which mode is used in this model?
40. In what format does the data get transferred to LCD?
41. How many bit does the LCD receive?
42. Why is the 10K pot used in model?
43. Can we vary the brightness of the screen?
44. Can wevary the contraston the screen?
45. Explain the working of each pins of LCD.
46. Different types of pinmodes.
47. Which mode is used in this model?

48. How many GPIO pins are present on-board?
49. How many GPIO pins are required for model?
50. What is voltage required for the raspberry pi board?
51. How is the input set to the model?
52. Which are the pins used on raspberry pi and LCD in this model?
53. Which are the libraries used for LCD?
54. What are functions present in LCD?
55. Which constructor is used for working of LCD?
56. How is the constructor defined/called?
57. What is clock speed?
58. What happens if the clock speed is varied?
59. Is delay required in programming?
60. What is the RAM capacity of the raspberrypi?
61. What is the processor of the board?
62. How many bit processors does PI has?
63. How is the connections done?
64. How many pots can be used in circuit?
65. What happens if the resistance is increased?
66. What type of wires are used in circuit?
67. What is the voltage required to turn onLCD?
68. What is the current rating of raspberrypi?
69. How does the contrast/brightness get varied by varyingpot?
70. What is the voltage required formic?
71. What is voltage required for raspberrypi?
72. Which are the different input ports of raspberrypi?
73. Which are the different output ports present in raspberry?
74. How is the raspberry connected to host PC?
75. Which is the software required for running of raspberrypi?
76. How the OS is installed to Raspberry?
77. What is the IP address of the board used?
78. What are different modes of communication with board?
79. Which mode is used in this model?
80. How to run the program?
81. How much delay is given?
82. Why delay is Important in displaying information onscreen?
83. How is the delay introduced in the program?
84. What is IDE?
85. Which are the different types of IDE present in raspberrypi?
86. Which IDE is used in this model?
87. Whicharethedifferenttypesofprogramminglanguageth atcanbeusedforraspberrypi?
88. Which version of python is used for programming?
89. Which are the different run modes of program?
90. Which are the different types of software used to run OS of board?
91. How is the app interfaced to c program?
92. Why is the app used in this c model?

93. How does appeal?
94. Is the model portable?
95. What is the cost of the model?
96. What are the built in modules in raspberrypi?
97. What is the version of Bluetooth in raspberrypi?
98. What is version of Wi-Fi module in raspberrypi?
99. Which OS is used?
100. What are the outcomes this project?

16. PAPAYA

1. What is Anveshana?
2. What is the importance of Anveshana?
3. What is the advantage of involving the school students in the Anveshana?
4. What benefit do school students get from participating in Anveshana?
5. Why this project?
6. What is the use and application of this project?
7. What are the advantages of this project?
8. To achieve this project what are the components used?
9. What is the supply we get in home?
10. What is the full form of AC and DC?
11. What is the difference between AC and DC?
12. Can we give directly AC supply to any hardware component?
13. If not then what type of supply is given to hardware component?
14. What type of conversion process is used to convert from AC to DC?
15. How to connect any components?
16. What is the use of bread board?
17. What is input voltage and output voltage?
18. Why every hardware component is given with input voltage and what is the use?
19. While connecting the hardware components any one pin is always grounded, why and what if it is not grounded?
20. Is it ok, if we give same 5v to all devices? Is there any division of voltage?
21. What type of wires is used to connect one component to other?
22. What is meant by soldering? How to solder the pins?
23. What is programming?
24. How many types of programming languages are present?
25. What is the use of programming?
26. While representing any concept how to represent in front of audience?
27. Why Arduino Uno is used, why not other microcontrollers?
28. What is the difference between microcontroller and microprocessor?
29. How many input and output pins are present in Arduino?
30. In that how many are digital and analog pins?
31. What do you mean by digital and analog pin?
32. What is the full form of IC?
33. What is IC?
34. What is the use of IC in any board?
35. What is the name of IC used in Arduino Uno?
36. How many pins are there in ATmega328?
37. What to do if we need a greater number of pins to connect?
38. How TX and RX pin works?

39. What type of supply is given to Arduino?
40. What is the supply voltage given to Arduino board?
41. What is VCC and ground?
42. What are the major components of Arduino Uno board?
43. What is the name of the oscillator present in Arduino Uno board?
44. What are the pins on Arduino?
45. What are the three important parts of Arduino?
46. What language does Arduino use?
47. What is the name of the software used for Arduino Uno?
48. What do you mean by interfacing?
49. How to interface any system to Arduino board?
50. What is the use of interfacing?
51. How to declare, read and print the statements in Arduino software?
52. How Arduino takes values pressed in keyboard?
53. What is the full form of LCD?
54. What are the types of LCD's are present?
55. The display of LCD is made up of what?
56. What is the application of LCD?
57. Liquid crystals do not emit light directly, instead of that what they use to produce images in colour?
58. Which component is used to provide black light for LCD?
59. What is resistor and why it is used?
60. What is the value of the resistor used in this project?
61. By using which component, we can adjust the contrast of LCD?
62. What is potentiometer and why it is used?
63. What is the value of potentiometer used in this project?
64. If we use 20x4 LCD then what 20 and 4 represents?
65. How many pins are there in LCD?
66. What is the supply voltage is given to LCD?
67. How LCD works?
68. What is the name of driver circuit IC used in 20x4 LCD?
69. What is driver circuit?
70. How to interface an Arduino and LCD?
71. Which function is used to clear the LCD in Arduino programming?
72. What 4x4 keypad represents?
73. How many keys are present in 4x4 keypad?
74. What is the internal structure of 4x4 keypad?
75. How 4x4 keypad works?
76. Keypad acts as?
77. In Keypad, is all the rows and columns are connected to each other?
78. How to setup an Arduino and keypad?
79. How any system takes the data when any key is pressed on keypad in programming?
80. What are the features of 4x4 keypad module?
81. What are the applications of 4x4 keypad module?
82. What is Bluetooth?
83. Is Bluetooth being a wired or wireless communication system?
84. What is communication system?

85. What is the difference between wired and wireless communication system?
86. Why Bluetooth module is used?
87. What is the use of Bluetooth in this project?
88. What are the applications of Bluetooth module?
89. What are the types of Bluetooth module?
90. Which type of Bluetooth module is used in this project?
91. What is the range that any Bluetooth module can transmit data?
92. How many pins are there in Bluetooth module?
93. Which pins are used to transmit and receive the data in Bluetooth module?
94. What are the functions of TX and RX pins in Bluetooth module?
95. How Bluetooth transfers data?
96. What is the supply given to Bluetooth module?
97. What is the range of output voltage in Bluetooth module?
98. Why Bluetooth module is used why not IoT?
99. What are the initial steps while interfacing Bluetooth module to any microcontrollers?
100. Do we need an android application to get to know the working of Bluetooth?

17. SMART COOLER

1. Name of the product?
2. Total weight of the product?
3. Cost of the product?
4. Material used for the product?
5. Mechanism used in the product?
6. Basic principal used?
7. Parts of the product?
8. Materials purchased from which company?
9. Capacity of the container?
10. Voltage required for the product?
11. Final product size?
12. Future improvements in the product?
13. Cost of the Peltier unit?
14. Working of the Peltier unit?
15. Material of the water tubes used?
16. How hot Peltier can get?
17. Hoe efficient the peltier device is?
18. Why two metal chips are used in the peltier?
19. Solar panel capacity?
20. Time required for charging?
21. Type of battery used?
22. Capacity of the battery?
23. Weight of the battery?
24. What is priming?
25. Did solar panel generate electricity during rainy season?
26. How you are planning to reduce the overall product weight?
27. Why heat sink is used?
28. How heat is dissipated from heat from heat sink?
29. Pumping rate?
30. How many litters of water required for cooling the product?
31. Temperature of cooling?
32. How solar charge controller works?
33. Temperature controller working?
34. Total amount of energy used per one cycle?
35. Length of the cooling pipes?
36. Material of the cooling plate minimum temperature of the cooling plate during the process?
37. How many days same water can be used?
38. Insulation material?
39. Cooling jacket material?
40. How many hours the cooling process will happen?
41. Where and all this product can be used?
42. Product development time?
43. How you got this product idea?
44. How you are planning to improve the cooling effect?
45. Is it suitable for indoor uses?
46. What is sea beck effect?
47. Size of the product?
48. Performance of the product?
49. Motor capacity?

50. Motor type?
51. What is axial fan?
52. How to control flow of water?
53. How to control the over cooling?
54. Difference between heat exchanger and water container?
55. Wooden box size?
56. Temperature difference in hot side and cold side?
57. Maximum pressure inside the water tubes?
58. How to clean the tank?
59. Capacity of the tubes?
60. How to drain the water?
61. How to re fill the water any coolant can be used other than the water?
62. Which brain solution is used?
63. What is called brine solution?
64. Servicing time?
65. Servicing cost?
66. How many switches used in the product?
67. Type of electric connections?
68. Any patent taken for this product?
69. What modification can be made to product in future?
70. Is it possible to convert the released heat into electricity through seeing back effect?
71. Is any other peltier type model available in market?
72. What is the life of the peltier?
73. Is there any chance of short circuiting?
74. How does it differ from sony peltier cooler?
75. Can it be digitalised?
76. How to use palter?
77. How to measure heat?
78. What are the states of matter?
79. This is which year Anveshana?
80. Why Anveshana doing ever year?
81. What is the difference between existing collars?
82. What are the market price collars?
83. What are main benefits in this project?
84. What is current?
85. Current measuring unit?
86. What is AC?
87. What is DC?
88. In car which current using?
89. What is Omas Law?
90. What is voltammeter?
91. What is ammeter?
92. When power will introduce India?
93. What is main difference fridge & collar?
94. If any back up battery is their?
95. In case no power it is working?
96. What is main principal hear apply?
97. How many days it will take to prepare project?
98. How to install in home?
99. Why we are using water hear?
100. Without water is it work properly?

18.IOT ENABLED SMART MUSHROOM CULTURE

1. What do you mean by operational amplifier?
2. List the ideal characteristics of an op-amp?
3. Zero o/p resistance
4. What are the main features of Ics 741?
5. What do you mean by input offset current?
6. What do you mean by input offset voltage?
7. What do you mean by input biased current?
8. What do you mean by differential input resistance?
9. What do you mean common mode rejection ratio (CMMR).
10. What do you mean by SVRR (supply voltage rejection ratio).
11. What do you mean by output resistance of an op-amp?
12. What do you mean by slew rate of an op-amp.?
13. What do you mean by gain band width product of an op-amp?
14. What do you mean by an open loop configuration of an op-amp?
15. How many configurations in open-loop op-amp configuration?
16. What do you mean by voltage follower?
17. What do you mean by a comparator?
18. What do you mean by a zero-crossing detector?
19. What do mean by a Schmitt trigger?
20. How many types of Schmitt trigger used?
21. What do you mean by threshold voltage of Schmitt trigger?
22. What do you mean by hysteresis of Schmitt trigger?
23. Explain the main effect of a hysteresis?
24. What do you mean by a voltage to frequency converter?
25. What is the function of frequency to voltage converter?

25 What is main application of frequency to voltage converter?

26. Explain the Timer IC-555?
27. Explain the function of phase detector?
28. Define an Integrated circuit.
29. Explain the main feature of IC-723.
30. What is function of pulse width modulator?
31. What are the two important properties of SiO2?
32. What is oxidation induced defects in semiconductor?
33. What are the advantages of ICs over discrete circuits?
34. What is OPAMP?
35. List out the ideal characteristics of OPAMP?
36. What do you mean by sample and hold circuit?
37. What is the use sample and hold circuit?
38. What are the component used in sample and hold circuit?
39. What is the function of buffer amplifier in sample and hold circuit?
40. Explains the function sample and hold circuit in Hold mode?

41. What is the function of FET used in sample and hold circuit?
42. What do you mean by sample rate?
43. What is the range of capacitor use in sample and hold circuit?
44. What happened if the value capacitor is increased in sample and hold circuit?
45. What is function of pulse width modulator?
46. What do you mean by PLL?
47. Explain the main component PLL?
48. Explain the function of phase detector?
49. What do you mean by lock range of PLL?
50. Explain the types of PLL?
51. Explain 1st order PLL?
52. Explain the function of loop filter?
53. What is the main application of PLL?
54. What is the value of pulse drop during the hold interval in sample and hold
55. What are the different kinds of packages of IC741?
56. Explain the function of each pin of timer IC?
57. Explain the main feature of IC-723.
58. Define an Integrated circuit.
59. What are the basic processes involved in fabricating ICs using planar technology?
60. List out the steps used in the preparation of Si – wafers.
61. What are the assumptions made from ideal pomp characteristics?
62. Mention some of the linear applications of op – amps?
63. Mention some of the non – linear applications of op-amps?
64. List the broad classification of ADCs?
65. List out the direct type ADCs.
66. List out some integrating type converters.
67. What is integrating type converter?
68. Explain in brief the principle of operation of successive Approximation ADC?
69. What are the main advantages of integrating type ADCs?
70. Define conversion time?
71. Define resolution of a data converter?
72. Explain in brief stability of a converter?
73. What is meant by linearity?
74. What is filter?
75. What is filter circuit?
76. What are the commonly used types of filter circuits?
77. Series Inductor Filter?
78. What is shunt capacitor filter?
79. What is the drawback of series inductor and shunt capacitor filter?
80. What is practical filter circuit?
81. What is Choke-input filter?
82. What is Capacitor-Input or Pi-Filter?
83. Salient Features of L-Section and Pi-Filters?
84. What is clipper?
85. Can you explain clipping circuit?

86. Clipping using Zener Diode?
87. Classification of clipper?
88. Application of clipper?
89. What is positive and negative clipping?
90. What is Positive Clipper circuit?
91. What is negative clipper circuit?
92. What is Combination Clipper?
93. Drawbacks of Series Diode Clippers?
94. What are oscillators?
95. Application of electronic oscillator?
96. Types of electronic oscillator?
97. What is Harmonic oscillator?
98. Types of Harmonic oscillator?
99. What are LC oscillators?
100. What is phase-shift oscillator?

19 THERMO COOLER

1. What is the cost of this project?
2. What is aim of the project?
3. How it's work?
4. What type of materials can be using in this?
5. How many parts occur in this part?
6. How many parts used?
7. What is the overall cost of the project?
8. What is output of the project?
9. What is thermocooler?
10. In which principle it works?
11. Sefine peltier effects?
12. What is heat?
13. What is cool?
14. How it's cool?
15. How it's heat?
16. What is capacity of the project?
17. At which degree it will cool?
18. At which degree it will heat?
19. It will preserve the food?
20. What is inner coating material is used?
21. What is outer coating material is used?
22. Comparing to existing system it is efficiency?
23. How much efficiency?
24. What is led?
25. What is converter?
26. What is this fan?
27. What is heatsink?
28. Whether it is dual purpose?
29. What is solar power?
30. What is EB power?
31. What is power supply?
32. What is current?
33. What is voltage?
34. What is thermocooler?
35. What is SMPS?
36. What is DC current?
37. What is AC current?
38. What is rectifier?
39. What is bread board?
40. What type food it will cool?
41. What type of food it will heat?
42. What is sensor?
43. What is absorb?
44. What is this box?
45. What is this light?
46. What is IC?
47. What Heat sensor?
48. What is cool sensor?
49. What is this plate?
50. What is door?
51. Ddefine heatsink?
52. Define sensor?
53. What is thermal paste?

54. What is paste?
55. What is inverter?
56. What is Transformer?
57. What is battery?
58. What type of battery can be used?
59. How current can be saved from solar?
60. What is step-up Transformer?
61. What is stepdown Transformer?
62. What is diode?
63. How much times it will take for cool?
64. How much times it will take for heat?
65. What is this red wire?
66. What is this blue wire?
67. What is this yellow wire?
68. What is female wire?
69. What is male wire?
70. What is Negative node?
71. What is Positive node?
72. What is this box?
73. What is circuit diagram?
74. What is Block diagram?
75. What is Flow chart?
76. What is temperature?
77. What is cooling?
78. When will you construct this?
79. What is this plate?
80. How sensor works?
81. How plate reacts with the materials?
82. How IC works?
83. How fan works?
84. How inverter works?
85. How resistor works?
86. What is blue wire?
87. Why blue wire is using?
88. Why sensor using?
89. Why IC is working?
90. Why fan is using?
91. What is wire?
92. Difference Between colours of wire?
93. Why flow chart is using?
94. Why circuit is using?
95. Why switch is using?
96. What is switch?
97. What is double switch?
98. Define peltier effects?
99. How led works?
100. What are led colors?
101. How these are works?

20. DRONE BASED SEARCH AND RESUCE

1. What is the maximum height it can fly?
2. How much distance it can cover during flood affected area?
3. How much weight the drone can lift?
4. What are the main objectives of the project?
5. What are problems faced by people in flood affected area?
6. What are the future enhancements can be done?
7. What are basic things can be provided by drone?
8. Where are all area does drone technologies used?
9. What are the drawbacks of your project?
10. What is the main intension to do your project?
11. Whether drone is water proof or not?
12. Does voice can be recognised from ground?
13. What is meant by GSM?
14. How does GSM works?
15. How does Voice Recognition system works?
16. What are the advantages and disadvantages of drone?
17. What are the components used to make drone?
18. Whether drone can be used for Unfavourable conditions such as bad weather, land sliding, and earth quakes? Yes or no.
19. What is your project title?
20. What is the main aim of your project?
21. How to make a drone resilient to serve weather conditions like storm and strong wind?
22. How to make drone to fly in weak signal area?
23. What are the applications of your drone?
24. Which tool is used to prove the communication protocol for drone?
25. Is your project works only rescue?
26. For rescue why drone why not helicopter or boat?
27. If government will not give permission for your drone what will you do?
28. Which technology is used for your drone?
29. Your project title is drone based search and rescue operation in flood affected area why not other areas?
30. Weather your drone can fly when it is raining?
31. After recognizing the voice of human what drone will do?
32. After recognition it will send SMS to pilot if it is poor signal area how it will send?
33. What are the possibilities of drone can carry more than 1/2kg of weight?
34. Why are there drones with 4, 6 or even 8 motors?

35. How high and far can drone fly?
36. Which sensor do you use to stabilize the drone?
37. Which cameras can be used?
38. What makes your drone so unique?
39. What does the drone do if the radio link fails?
40. Are there restrictions in operating the drone?
41. Can drones also be used indoors?
42. What is Anveshana do?
43. What does the drone do after capturing the visuals?
44. How can you control the drone?
45. Which battery are you choosing for your drone?
46. Why lithium battery why not others?
47. Do I need to insure my drone, or will my public liability insurance suffice?
48. Can the drone batteries also be charged on the road, without outlets?
49. What happens if your drone crashes?
50. How safe are drones?
51. What should the age limit be for people to fly drones?
52. Should drones be banned?
53. What do you think the future holds for drones?
54. Can I fly a drone outside from inside a building?
55. Can Drone be used for Agriculture?
56. How can we Increase the communication range of a commercial drone/UAV?
57. What are the uses of Unmanned Aerial Vehicles (or "drones")?
58. What are the major concerns about using flying drones?
59. How does the quadcopter differ from the helicopter? In which field are quadcopters in use?
60. What are the various types of faults (realistic) a quadcopter could experience (besides partial/complete loss of rotor)?
61. What is the best microcontroller for implementation of fuzzy logic on a drone? Controller for a quadcopter?
62. How can I determine the rotor radius for Quadrotor?
63. What is the use of Transmitter and receiver in a quadcopter?
64. When did Agastya foundation start?
65. What is the difference between RTF, BNF and ARF?
66. What is the Battery weight in quadcopter?
67. Are all drone propellers compatible with all brushless motors?
68. Why do we need to design controllers for controlling a quadrotor?
69. Why do my quadcopter motors slowly decrease RPM with full throttle?
70. How long can the drone motors can run in air without losing efficiency in mid-air?
71. Can it provide first-aid kit?
72. Can it carry rescue tools to the affected area?
73. How long does it take to charge the battery?

74. How long can a fully-charged battery sustain during the rescue operation?
75. Can it charge itself using solar panel if installed?
76. How can be drone tracked when it crashes?
77. How will you retrieve the crashed drone?
78. What does the drone do after capturing the visuals?
79. How can you control the drone?
80. Is Anveshana is about state or national exhibition?
81. What are the advantages in participating in Anveshana?
82. Is your project only applicable in flooded areas?
83. Are drone cameras legal?
84. Is it mandatory to buy camera along with drone?
85. What is the cost of your drone?
86. Can flying robots also perform tasks other than capturing aerial photos?
87. You are saying that voice recognition kit senses the voice of human if person speaks words apart from what you feed?
88. Who is it for?
89. Which are the potential markets?
90. Is there enough demand?
91. Can customers afford it?
92. Why will they buy it?
93. What is your motivation for doing it?
94. Is it a new concept?
95. How soon could the idea be put into operation?
96. What are the risk factors involved in executing the idea?
97. How simple or complex will the idea's execution or implementation be?
98. How much investment would you need to commercialise the idea.
99. How do you intend to protect your idea?
100. How drone propellers work?

21. FORMULATION FROM M PRURIENS

1. What are Mucunaseeds?
2. What is its common name (in Kannada) of the seed?
3. Where is it usually grown?
4. Do we get it in the market?
5. How does the plant look like (herb or shrub)?
6. Is it a monocot or dicot?
7. Can it be consumed?
8. Why are they called Velvet beans?
9. Does Karnataka have these plants?
10. What are the different kind's of*Mucuna*?
11. How many species of *Mucuna* do we have in total?
12. What are the main constituents of the seeds?
13. What are the conditions required to grow the plants?
14. Does it have the same properties as Soybeans?
15. Why are the seeds not very popular?
16. How do people use it for consumption?
17. What is *Mucuna* good for?
18. What were the changes observed in the population who consumed *Mucuna* as a staple diet?
19. What are anti-nutritional components?
20. Why are the anti-nutritional components present in *Mucuna* seeds?
21. Do common legumes also have the anti-nutritional components?
22. Why are the anti-nutritional components of *Mucuna* seeds more harmful?
23. What are the different anti-nutritional components present in the Mucunaseeds?
24. What is L-Dopa?
25. Is L-Dopa harmful for health?
26. Can humans consume seeds with L-Dopa?
27. Do common legumes also have L-Dopa?
28. How much quantity of L-Dopa can be consumable?
29. What will happen if we consume L-Dopa in excess quantity?
30. What is dopamine?
31. Where is dopamine present in then body?
32. What do you mean by Parkinson's disease?
33. Usually, who suffer from this disease?
34. What are the symptoms of this disease?
35. What does the Parkinson's disease do?
36. Is Levodopa and L- Dopa same?
37. What is malnutrition?
38. What are the types of malnutrition?
39. What is Kwashiorkor?
40. What is Marasmus?
41. What is the number of calories required to prevent protein energy malnutrition?
42. What is Protein energy malnutrition (PEM)?
43. What is the cause of protein energy malnutrition?
44. What is the basic deficiency in people suffering from PEM?
45. How can PEM be treated?
46. Where is PEM commonly occurring?

47. What are the symptoms of protein energy malnutrition?
48. How can protein energy malnutrition be diagnosed?
49. Do people die of protein energy malnutrition?
50. Why should we reduce L-Dopa?
51. What are the side effects of L-Dopa?
52. Why can't we use common legumes like soy beans to reduce PEM?
53. What is the difference between the common legumes and the*Mucuna* seeds?
54. Why does the *Mucuna* seeds have more L-Dopa?
55. What is the need of processing the seeds?
56. What are the methods used while processing?
57. Why do we roast the seeds?
58. What is the ideal temperature for roasting the seeds?
59. Why do we use salt for soaking?
60. How many hours do we soak the seeds?
61. Why are the seeds soaked for only 24 hours?
62. What happens if the seeds are soaked for 48 hours?
63. Why does seed coat shrink when soaked?
64. Is the shrunken seed coat indicating the reduction in the L-Dopa?
65. How do we extract the L-Dopa?
66. Why isn't soaking possible using other chemicals or salts?
67. What is the need for boiling of the seeds?
68. Is boiling done the same way as the common legumes?
69. How long do we boil the seeds for?
70. Which is the common age group suffering from PEM?
71. Is protein energy malnutrition curable?
72. How can we increase the protein in the daily diet to prevent PEM?
73. How can we prevent PEM?
74. What should the people suffering from protein energy eat?
75. Will the*Mucuna* seeds help the protein energy malnutrition patients?
76. How do theMucuna seeds help them?
77. How can you estimate the protein concentrations from the seeds?
78. Why only 8 different types of seeds are used the project?
79. What are the instruments used in the process of the project?
80. Why do we have to make the formulations?
81. Why can't the seeds be directly consumed without formulating?
82. What are the different forms of formulations made?
83. Are the formulations edible for daily consumption?
84. How will the formulated products help the people suffering from PEM?
85. Does reducing L-Dopa in *Mucuna*effect the health and nature of the seeds?
86. What are the different ingredients used for the formulation?
87. What quantity of seed sample should be added in the formulation?

88. What do you mean by accession numbers?
89. Why do we seeds have accession numbers?
90. Are the powder formulations better than formulated cookies?
91. How many formulated cookies can a person suffering from protein energy malnutrition consume?
92. Are there any side effects in consuming these formulations?
93. What could be the possible health benefits of these formulations?
94. Why are people scared to use *Mucuna*for their daily consumptions?
95. How do we know that the formulations are helping the protein energy malnutrition affected individuals?
96. Does the formulation also provide vitamins to the individuals affected from malnutrition?
97. Is only protein energy malnutrition be treated or can it also help the children facing any other forms of deficiency in the constituents of the food?
98. Will the dosage of this formulation differ for different age groups?
99. Do the*Mucuna* seeds possess any other toxic components?
100. Are there any other legumes in the plant species similar to *Mucuna* and its components?

22. SIGH GLOVES FOR MUTE PEOPLE

1. How did you get idea about this project?
2. Does this project convey messages in all languages?
3. How do you supply power to the device?
4. What are the terminals of a battery?
5. Is there any shock hazards for the user?
6. Is it necessary to wear gloves frequently?
7. Which programming language is used in this project?
8. Does this project convert all signs what we do?
9. What are flex sensors?
10. How flex sensors work?
11. How do you send message from flex sensors to raspberry pi?
12. What is the role of accelerometer?
13. What is raspberry pi?
14. Why you used raspberry pi?
15. Is it portable?
16. Is this device is already invented?
17. As you said this device is invented, then why are you doing it again?
18. How many days did you take to complete the project?
19. Cost of the project
20. How do you get information regarding the project?
21. Where did you get the components for the project?
22. How do you display messages?
23. Why do you use speaker in the project?
24. How do you convert text into speech?
25. What is a resistor?
26. What are electrons?
27. Why resistors are used?
28. What do you mean by AC?
29. What do you mean by DC?
30. What is the difference between AC and DC?
31. How do you convert AC to DC?
32. How do you convert DC to AC?
33. What do you mean by rectifier?
34. What is an inverter?
35. What are capacitors?
36. Is conversion of AC to DC necessary in this project?
37. How does a Bluetooth module work?
38. What are embedded systems?
39. What are the applications of embedded system?
40. What is a voltage regulator?
41. What are integrated circuit?
42. What are ratings of a device?
43. What are filters?
44. What type of filter is used in this project?
45. What are diodes?
46. What are diodes made up off?
47. What is doping?
48. What are dopants?
49. What are penta-valent impurities?
50. What are tri-valent impurities?
51. What is P-N junction?

52. What is breakdown voltage of a diode?
53. What is the breakdown voltage of silicon diode?
54. What is the breakdown voltage of germanium diode?
55. What are LED's?
56. Abbreviation of LED?
57. What are LCD?
58. Abbreviation of LCD?
59. How normal diodes are different from LED?
60. What are transistors?
61. What are transistors made up off?
62. How transistors are different from diodes?
63. What is an operating system?
64. What is NOOBS (New out Of Box Software)?
65. What is RAM?
66. What is ROM?
67. Abbreviation of RAM?
68. Abbreviation of ROM?
69. What is PCB?
70. Abbreviation of PCB?
71. What are push buttons?
72. What are connectors?
73. What is the range of power supply given to raspberry pi?
74. What is an electrical circuit?
75. When an electrical network is said to be open circuited?
76. When an electrical network is said to be short circuited?
77. What is the difference between close circuit and short circuit?
78. What are the effects of short circuit?
79. What are the different types of connection in an network?
80. What is a series connection?
81. What is a parallel connection?
82. What is a cascaded connection?
83. When do you say resistors are in series?
84. When do you say the resistors are parallel?
85. What happens to the equivalent resistance value when resistors are connected in series?
86. What happens to the equivalent resistance value when resistors are connected in parallel?
87. What happens to the equivalent capacitance value when capacitors are connected in series?
88. What happens to the equivalent capacitance value when capacitors are connected in parallel?
89. What is a node in an electrical network?
90. What are SI units?
91. What is the SI unit of voltage?
92. What is the SI unit of current?
93. What is the SI unit of resistance?
94. What is the SI unit of capacitance?
95. What is voltage divider rule?
96. What is current divider rule?
97. When is the voltage divider principle applicable?
98. When is the current divider principle applicable?
99. Which is the instrument used to measure the voltage?
100. Which is the instrument used to measure the curre?

23. JEEVA RAKSHAKA

1. What is gas?
2. Name a few hazardous gases
3. How accurate can the gas sensing technology be?
4. Name some of the gas sensors.
5. What are gas sensors?
6. What are the applications of gas sensors?
7. What do platinum wires do in the gas sensors?
8. Name the gas which MQ2 gas sensors detect?
9. Name the gas which MQ3 gas sensors detect?
10. Name the gas which MQ4 gas sensors detect?
11. Name the gas which MQ5 gas sensors detect?
12. Name the gas which MQ137 gas sensors detect?
13. What is the gas detection range of the Methane sensors?
14. What is the gas detection range of the CO sensors?
15. What is the gas detection range of the Ammonia sensors?
16. What is the gas detection range of the Hydrogen sulphide sensors?
17. What is sewage?
18. Which sewer gas very dangerous?
19. Can breathing sewer gas be harmful?
20. Can sewer gas be odourless?
21. Which sewer gas is the most dangerous one?
22. Write a note on MQ135?
23. Write a note on MQ137?
24. Write a note on MQ2?
25. Which sensor is called as chemiresistor?
26. Why MQ2 is called as chemiresistor?
27. What is the output of the gas sensors?
28. What is the molecular weight ofNH4?
29. What is the molecular weight of H2S?
30. What is the molecular weight of CO2?
31. What is the molecular weight of CO?
32. What percentage of oxygen deficiency causes man to be unconscious?
33. What percentage of oxygen will cause death to a person?
34. What is the minimum concentration of oxygen in air required for human breathing?
35. Can sewer gas explode?
36. Which gas is heavier than air?
37. Name some of the microbes present in the sewer.
38. What is node MCU? Why is it used?
39. What is cloud blink?
40. What is 4057 IC?
41. What is a multiplexer?
42. What is mean by poisonous gas?
43. What is toxicity?
44. What is venom?
45. What is air pollution?
46. What are main causes of air pollution?
47. What are the five causes of air pollution?
48. How do we prevent air pollution?
49. Is there any technique that can detect and measure traces of nitrogen in a gas mixture?

50. The explosive range in the normal air is…?
51. What is formed when methane is burnt or heated in air having low oxygen content?
52. Why gas sensor is used?
53. How do I connect a gas sensor to my Arduino?
54. Will a 4 gas meter detect natural gas?
55. What gases does a 4 gas meter detect?
56. What is an LEL monitor?
57. What is LEL and UEL?
58. How is LEL measured?
59. What is LEL full form?
60. What is UEL full form?
61. How to Convert LEL to PPM on a Gas Meter?
62. What is the output of gas sensor?
63. What is meant by flammability limits?
64. How does a gas leak detector work?
65. How many ppm of methane is dangerous?
66. Is methane a carcinogen?
67. Is methane gas heavier than air?
68. What produces methane naturally?
69. How can Methane affect human health?
70. How is methane gas harmful to the environment?
71. How can we reduce methane?
72. Does anything absorb methane?
73. Do trees absorb methane?
74. When trees die do they release carbon dioxide?
75. How is methane emissions measured?
76. Is methane a fossil fuel?
77. Why is methane bad?
78. Will a 4 gas meter detect natural gas?
79. How does a PID sensor work?
80. What is the explosive range of methane?
81. Is natural gas environmentally friendly?
82. Is hydrogen a flammable gas?
83. What temperature does hydrogen burn?
84. Do humans produce methane?
85. Which is the poisonous gas?
86. What was poison gas used for in ww1?
87. How does mq2 gas sensor work?
88. How is LEL correction factor used?
89. What is LEL in confined space?
90. Is there a device to detect gas leaks?
91. What should I do if I smell gas?
92. What is LPG liquid?
93. Is LPG a gas or liquid?
94. Are propane tanks filled with gas or liquid?
95. In which form LPG is filled in gas cylinder?
96. Why do LPG cylinders get cold?
97. What is hazardous gas detection and alert system?
98. What are the advantages of this project/product?
99. Why is a buzzer present in the product?
100. What is mean by signal conditioning circuit?
101. How does signal conditioning work?
102. What is need of signal conditioning?

103. What is mean by connecting wires?
104. What is the type of connecting wires?
105. What is IOT simple definition?
106. What is IOT and how it works?
107. What is the purpose of IOT?
108. What are examples of IOT devices?

24. VEHICAL USING HEARTBEAT SENSOR

1. What is electricity?
2. How the electricity is being added into battery?
3. Difference between A.C and D.C?
4. How A.C is converted into D.C?
5. Why D.C is used in battery why not A.C?
6. What is resistor?
7. What is rectifier?
8. How the current flows in a circuit?
9. What is open loop and what is close loop?
10. What is voltage?
11. Difference between voltage and current?
12. Which is harmful voltage or current?
13. How the resistors are made?
14. Why only metals will conduct?
15. How many types of metals are there?
16. Which is the efficient metal?
17. Which metal is used in overhead conductor?
18. What is grounding?
19. What is earthling?
20. Why return path is to be provided?
21. How earthling is done at home?
22. How much voltage is safe on direct touching?
23. Which is dangerous ac or dc?
24. How ac and dc and voltage is measured?
25. How the measuring instruments are manufactured?
26. What is inductance?
27. How inductors work?
28. What is capacitor?
29. How capacitor does is made and how it will work?
30. What is semiconductor how it is made?
31. Difference between conductor insulator and semiconductor?
32. Why semiconductors largely used in electronics?
33. Difference between electrical and electronics?
34. What is battery? And how many types of batteries are present?
35. How the batteries are charged?
36. How the battery life is defined?
37. How voltage current and resistors are interconnected?
38. How voltage is generated?
39. Why only A.C is transmitted why not D.C?
40. How dc voltage can directly generated?
41. What is generator and what is motor?
42. How to identify ac and dc motor?
43. What is rpm?
44. How motor works as generator?
45. What is Arduino?
46. How the Arduino to be powered?
47. How Arduino is help full for our project?
48. How the Arduino is loaded with program?
49. What are digital pins?
50. What is analog pins?
51. What is crystal oscillator?

52. What is microcontroller?
53. How the Arduino works with respect to the program?
54. How the Arduino program is differ from the c program?
55. What are sensors?
56. What are different types of sensors that we are using?
57. What is heart beat sensor?
58. How the heart beat sensor works?
59. What is medical condition of B.P patients?
60. Where the B.P is being displayed in the care?
61. What are displays?
62. How LCD works?
63. How buzzer and button connected to Arduino?
64. How the laptop is giving supply to Arduino?
65. How Arduino is saving the program?
66. How the word format information is doing its job?
67. What is ultrasonic sensor? how it will work?
68. What is IR sensor? How it will work?
69. What is the range of both the sensors?
70. What is servo motor?
71. What's the difference b/w servo and the normal motors?
72. How the servo motor is to be programmed?
73. The maximum angle of servo motor that we are using?
74. What is two way switches?
75. Why we are using two heart beat sensor?
76. What happen if we drive without seat belt?
77. How this method gives solution for that?
78. What is R.F module?
79. What are radio waves?
80. How radio waves carries signal?
81. Why we are using R.F module?
82. What is transmitter and receiver?
83. What is RxD and TxD means?
84. What is wireless communication?
85. What are the different types of wireless communication module exist?
86. What Is gsm module?
87. Why it is bigger than our usual mobile?
88. How the SIM works?
89. How different SIM has different numbers?
90. How the GSM module is using has wireless communication device?
91. How to power the GSM module?
92. What is GPS module?
93. How the GPS modules take the position?
94. How the connection is established between GPS and Arduino?
95. How the GPS location is sent?
96. What is antenna?
97. Difference between GSM and RF module?
98. How the message is transferred?
99. How the communication is established between ambulance and traffic signal?
100. What happens to that car after transferring the driver to the hospital?

25. AGRICULTURE DRONE

1. What is drone?
2. What is UAV?
3. How much can drone carry?
4. How long will high tech drone fly?
5. How high and far can drone fly?
6. Which sensors do you use to stabilize the drone?
7. Which camera can be used?
8. Which drive technology do you use?
9. What happens if drone crashes?
10. What makes your drone so unique?
11. Are the aircraft easy to fly?
12. Can drones also be used indoors?
13. Can the drone's battery also be charged on the road, without outlets?
14. Is there any prohibition in operating the drone?
15. Why are there drones with 4,6 or even 8 motors?
16. How can we increase the communication range of a commercial drone?
17. Can we connect multiple UAVs in adhoc manner?
18. Who suggests rules for the flights of UAVs?
19. How do you view plant health data? Do we need any special camera?
20. How can we export my map to compare it to yield maps, soil maps and other data?
21. How drones can be used in agriculture?
22. What is the best drone for agriculture?
23. How do drones help farmers?
24. What are the components used in making drone?
25. What are brushless motors?
26. How does the motor work?
27. What is the principle behind working of motor?
28. What is the application of drone technology in the architectural and build environmental field?
29. Where to find images datasets from crop field?
30. What are the software used in flight controller and raspberry pi?
31. How does raspberry pi works?
32. How does pi camera works?
33. What is the formal name for drone?
34. How many not jets do drone have?
35. How does infrared technology help farmers?
36. What are the advantages of agricultural drone?
37. What are the disadvantages of the agricultural drone?
38. What is the aim of this project?
39. What are the challenges of this project?
40. What are the problems faced by farmers?
41. What is FAA?
42. What are the drawbacks of agricultural drone?
43. Explain the block diagram of drone?
44. What is the working of flight controller?
45. What are gyroscopes?
46. What is accelerometer?
47. What is ESC?

48. What is the working of ESC?
49. What is the principle behind the working of propellers?
50. Why raspberry pi is used?
51. What are the different models of raspberry pi?
52. What is the weight of payload used?
53. How the sprinklers are fixed?
54. How much amount of pesticides can be used in spraying?
55. What are the main causes of soil erosion?
56. How does soil erosion occur?
57. What are visual navigation?
58. What is GPS?
59. What is autonomous refueling?
60. What is aerial refueling?
61. What are the different ways of aerial refueling?
62. What is autonomous flight?
63. What is attitude estimation?
64. Draw the state diagram for the motion of UAV?
65. What is SSCM?
66. What is PA?
67. What is DSS?
68. What is precision agriculture or satellite farming or site specific crop management?
69. What are the goals of precision agriculture research?
70. What is the storage capacity of liPO battery?
71. What are BLDC?
72. Explain agricultural wonder drone system using micro controller 8051 with block diagram?
73. Explain agricultural drone system using GPS with block diagram?
74. Explain agricultural drone drone system using at mega 328 with block diagram
75. Explain the working of atmel 644PA
76. Why does ESC used?
77. What is the working of nossel?
78. Describe a couple of the government efforts to handle agricultural surpluses that have arisen from its long standing price support programs?
79. What are the applications of genetics in agriculture and what are some examples?
80. What is the role of agrochemicals in increasing food production?
81. Is the economic growth of developing countries more important than protecting the environment?
82. Why does farming lead to hierarchy? What does hierarchy allow?
83. What are the short run problems of farmers?
84. Why did farming lead to larger populations?
85. Where can you find good marketing research materials if you are a farmer?
86. What is commercial agriculture?
87. What is the difference between vegetative planting and seed agriculture?
88. How does live video streaming works?

89. What happens if fertilizers increase in soil?
90. What is irrigation?
91. What is soil erosion?
92. What are agricultural marketing?
93. Why are Indian farmers facing problems?
94. What are prevailing problems of Indian farmers?
95. What is the final solution to eliminate the problems faced by farmers?
96. What is servo meter and how does it work?
97. What are the workings of water tank?
98. What more can be added on the drone to make it work effectively?
99. What is the minimum cost of agricultural drone?
100. How can we implement this in our Karnataka?

26. FARMAR'S FRIEND

1. What is Anveshana?
2. What is the use of taking the part in Anveshana?
3. Do we have to present the projects to everyone or only to the judges?
4. What will you teach us during the classes?
5. Why school students are chosen for this competition?
6. What is the title of your project?
7. What solutions are been taken care to solve farmers problems?
8. What are the basic modules used in this project?
9. How does the communication take place between the hardware and software?
10. What are the applications of this project?
11. What is the project about?
12. Why are you teaching us about the project?
13. Is it a working model or prototype?
14. What is the full form of IOT?
15. Who coined the term, 'Internet of Things'?
16. What are the components used?
17. What is Sensor?
18. What are different types of Sensors?
19. What is a Resistor?
20. What is a transistor?
21. What are the 3 terminals of transistor?
22. What is a microcontroller?
23. What is a microprocessor?
24. What is Arduino?
25. What is raspberry pi?
26. What are the parts of Arduino uno?
27. Why jumper wires are of different colors?
28. Is it going to work on AC voltage or DC voltage or both?
29. What is the difference between AC and DC?
30. What is the cost of all the components?
31. What is IDE?
32. What is programming?
33. What is coding?
34. What is Camera?
35. What is an Image Processing?
36. What are the advantages of raspberry pi?
37. What are the features of raspberry pi?
38. What is the programming language used in Arduino?
39. What is the programming language used in image processing?
40. What is the difference between Arduino and raspberry pi?
41. What is power?
42. What is power supply?
43. What is the max power supply for Arduino?
44. How are the connections made?
45. What is pH?
46. What are jumper wires?
47. What are the types of jumper wires?
48. Why we are using jumper wire?
49. How jumper wires differ from normal wires?

50. What is humidity?
51. What is temperature?
52. What is the use of humidity in soil?
53. What is moisture?
54. Where did you get the idea from?
55. What is full form of NPK?
56. Which language will be used in Raspberry Pi?
57. What are the steps involved in project?
58. What is MATLAB?
59. Why is it called so? Does it involve math's?
60. What is the use of sensors?
61. What is camera module?
62. What are pixels of an image?
63. Is this project as simple as it looks?
64. What is an LCD display?
65. What is the full form of LCD?
66. Why is LCD used in this project?
67. What is pH?
68. Which language is used for coding?
69. What are crops?
70. Why DHT11 sensor used?
71. What are the types of programming languages?
72. What are the drivers?
73. What all sensors are used in this project?
74. What is the real cost of this project?
75. Is it a one-time investment?
76. What is the use of camera module?
77. How are we helping farmers via this project?
78. What are the factors to measure soil quality?
79. What is moisture sensor?
80. Is it environment friendly?
81. What is motor?
82. What is pump?
83. What is soil?
84. Why is pump used?
85. How is current related to resistance?
86. How much electrical power is required for this project?
87. What is breadboard?
88. What is RGB?
89. What is the method to extract RGB values?
90. Can we use in all climatic conditions?
91. What is drip irrigation?
92. What is the conclusion of this experiment?
93. How jumper wires differ from normal wires?
94. Is this method accurate than other methods?
95. What are the limitations of this project?
96. Is this project farmer friendly?
97. What are the advantages of this project?
98. How to overcome the limitations of this project?
99. Is this method affordable for everyone?
100. Can this project be done in large scale?

28. BRIDGE CAPACITOR

1. What is bridge?
2. What is water reservoir?
3. Where is the bridge will built?
4. Which is the largest bridge?
5. What is dam?
6. Which is the largest dam in world?
7. Which is the largest dam in India?
8. Which is the largest dam in Karnataka?
9. What is the use of dams?
10. How dams play an important role in daily life?
11. How water will pass through dams?
12. How gates will build in dams?
13. What happen if access amount of water stored in dams?
14. In which place the dams will build?
15. What are the basic components to build dams?
16. Example for dams?
17. What is the use of storing water in dams?
18. How dams will work?
19. Does dams work manually?
20. How dams play an important role in economic growth of government?
21. How many dams are there in India?
22. What happen if dams get damages?
23. How bridges built across rivers?
24. Which field of engineering play an important role in construction of bridge?
25. What is the basic material to build bridge?
26. Which are the different types of bridges?
27. What do you mean by bridge?
28. What is the help of bridge in the mode of transportation?
29. What is bridge safety?
30. Where we can find bridges?
31. Which is the largest bridge in India?
32. Why we built dams?
33. What is electricity?
34. What is wire?
35. What is current?
36. What is SI unit of current?
37. What is positive current?
38. What is negative current?
39. How electricity will pass?
40. What are sirens?
41. How siren will play their roles?
42. What is machine?
43. What is DC machine?
44. What is AC machine?
45. How DC machine will work?
46. How AC machine will work?
47. Where we can fine DC machines?
48. Where we can find AC machine?
49. What is the role of DC machine?
50. What is the role of AC machine?
51. How DC machine will produce electricity?

52. How machine are familiar with our daily lives?
53. Where we can find machines?
54. Give example for machinery objects?
55. How electricity is related with machines?
56. What is light?
57. What is Bulb?
58. Who invented bulbs?
59. How bulbs will glow?
60. What is watt?
61. What is the basic need to glow the bulb?
62. Why we use electric lights?
63. What is the red bulb indicate in traffic signals?
64. What is the yellow bulb indicates in traffic signals?
65. What is the green bulb indicates in traffic signals?
66. How electric connections are done?
67. What is sensor?
68. How sensor will work?
69. Give the example for different kind of sensors?
70. Where we can find sensors?
71. What is the use of sensors?
72. What is road?
73. Which are the materials used to build roads?
74. Who will build roads?
75. Who will plan to build roads?
76. How roads play an important role in transportation?
77. What are vehicles?
78. Give the example for vehicles?
79. How many types of transportations are there?
80. What is road transport?
81. What is air transport?
82. What is seaways?
83. What is weight?
84. What is mass?
85. What do mean by close?
86. What do mean by open?
87. What is gate?
88. What is metal?
89. What is security?
90. What is high alert?
91. What offence?
92. What unlawful means?
93. How vehicles will move?
94. What is the necessity to preserve dams?
95. What is cement?
96. What are floods?
97. What happen if floods happen?
98. How flood effect the nature?
99. How flood effect human building?
100. How will it help in economic growth?

29. SILLA-DE-RUEDAS

1. What is software?
2. What are software requirements?
3. What is hardware?
4. What are hardware requirements?
5. What do u mean by Silla-de-Rueda's?
6. Which language does this word belongs to?
7. What is Anveshana?
8. When does it start?
9. When does it end?
10. What is the aim of Anveshana?
11. Where is Anveshana held?
12. What is microcontroller?
13. Which microcontroller is used in this project?
14. What is motor?
15. What is the capacity of the motor used?
16. What are sensors?
17. Which sensor is used here?
18. What is battery?
19. What kind of battery does a wheel chair use?
20. What is the capacity of the battery used in wheel chair?
21. Which is the app used to connect wheel chair and the data of the person?
22. What is transmitter?
23. What is receiver?
24. Expand LCD?
25. What is LCD display?
26. What are radio waves?
27. What are commands?
28. Expand RFID?
29. What is RFID technology?
30. What is the function of RFID?
31. What is the function of motor drivers?
32. Which Wi-Fi module is use?
33. What is the function of ESP8266?
34. Expand TCP?
35. Expand IP?
36. What is TCP?
37. What is accelerometer?
38. What is IOT Technology?
39. How IOT is used?
40. Expand RPM?
41. What is RPM?
42. How does the mobile app relate to this project?
43. Expand BCM?
44. What type of motors is used?
45. What is the maximum weight that can be applied on wheel chair?
46. What is the RPM of the motor?
47. What are the RFID tags used?
48. What is the function of RFID sender tag?
49. What is the function of RFID receiver tag?
50. What is IP address?
51. Is the motor geared?

52. What buttons are used in neck belt?
53. What is the battery voltage used in belt?
54. What is the cost of the vehicle?
55. What is the existence technology in wheel chair?
56. What is the use of BCM module?
57. What is temperature sensor?
58. What type of motors is used?
59. Expand IOT?
60. What is microprocessor?
61. What is the difference between microprocessor and microcontroller?
62. What is torque?
63. What is force?
64. What is the relationship between torque and force?
65. What is the formula for torque?
66. What is the formula for force?
67. What is newton?
68. What is block diagram?
69. Where we can view the data of the patient temperature and heart beat?
70. How many times does the heart beat per minute?
71. What is sequence diagram?
72. What is dataflow diagram?
73. What is use case diagram?
74. What is torque?
75. What is speed?
76. What is Distance?
77. What is the relationship between torque and speed?
78. What is full form of APK?
79. Which android version that APK does telnet application support?
80. What is the IP address used here?
81. What is the exact IP address used in this?
82. What is the port number it gets connected?
83. What is port?
84. What is port number?
85. For what purposes wheel chair is use?
86. What are the advantages of wheel chair?
87. Where is this wheel chair use?
88. What are the advantages of this wheel chair over existing technology?
89. Give an example for IP address?
90. What is paralysis?
91. What is displacement?
92. What if the person has one hand?
93. Can we use this wheel chair in garden?
94. Can we use this wheel chair in roads?
95. Can this wheel chairs be used in shopping complexes?
96. Is this wheel chair affordable by middle class people?
97. Is the neck belt shock proof?
98. Is the buttons used in belt safe for old age person?
99. Is the wheel chair safe for a person with no hands and legs?
100. Can this project become an product?

30. MONITORING OF HIGH WAY WIND POWER

1. What is Anveshana?
2. When Anveshana did come into?
3. Who is the co-founder of Anveshana?
4. What is the aim of Anveshana?
5. Name of the project?
6. What is the aim of the project?
7. What is the main prospect of this project?
8. According to present survey what percent of city electricity is consumed by lighting streets and highways?
9. What are the two different way to generate electricity?
10. Which resource are we using in this project?
11. What is the major drawback?
12. Which turbine is used in this project?
13. Where does the generated electricity stored?
14. This parameter can be stored using?
15. Who is the first person to introduce this project?
16. Which year does he introduce?
17. What bases he introduce?
18. Which sensor is used for the illumination?
19. Who is the 2nd person continued by smart street lighting?
20. What is the equipment used to design for lighting the streetlight?
21. What does the system includes in the shubham Sarkar article?
22. Who is the 3rd person to implement this project?
23. What is the aim of fares S.EI-four for this project?
24. What is the source is used in this project?
25. What is the implementation take place in fares s?
26. Solar energy to drive a standalone street lighting system where the intensity is measured by?
27. What are the components does the block diagram contains?
28. Explain the block diagram in detail?
29. Which Arduino board is used?
30. What is LAN?
31. What are the functions of LAN?
32. Why voltage measurement is used?
33. Which sensor is used?
34. What is the function of lead acid battery?
35. What is the main purpose of using vertical turbine?
36. What is hybrid resource?
37. What are steps involved in proposed work?
38. What are the 2 types of wind turbines?
39. What are the features of this project?
40. Who introduced power generation by vertical axis wind turbine?
41. Who introduced hybrid power generation system?
42. Who introduced on based of IOT?
43. What is the conclusion of this project?

44. What is the outcome of this project?
45. What is the amount of energy generated and stored are used for?
46. What is the finally output?
47. Example for renewable resources?
48. What is the working of charging control system?
49. What is interface?
50. What is the use of LCD motor?
51. Which wind turbine is better?
52. Which type of programming language are you using?
53. What are the uses of Arduino Ethernet Shield?
54. Who was the founder of vertical wind turbine?
55. Some of the results of this project.
56. In which it was developed.
57. How VAWT is better than HAWT.
58. Size of a VAWT.
59. Parameter required for VAWT.
60. Some Advantages of this project.
61. Some disadvantages of this project.
62. What is an IOT?
63. Does it require man-power.
64. How does this VAWT works.
65. What are features of this project?
66. What are challenges as to be take?
67. What is the safety measurement?
68. Basics problems.
69. Does this wind turbines are seasonal.
70. Computation between horizontal and vertical wind turbine.
71. How do you measure the generated current?
72. Basics principle of this project.
73. What are the uses of generated current in this project?
74. Does this method is eco-friendly.
75. How can you tell this project can fulfil the demand of electricity?
76. Why are you using the keyboard in this project?
77. Uses of Interface.
78. Why are you using IOT?
79. How solar energy is better than wind energy.
80. Why relay are used in this?
81. What are the functions of street light?
82. Does the street light can be DIM.
83. How Street light can be turn ON/OFF?
84. Does the investment of cost is high or low.
85. Briefly explain about methodology of this project.
86. How generation of current takes place.
87. What does VAWT means?
88. What does HAWT means?
89. Which force is used by horizontal turbine?
90. Which force is used by vertical turbine?
91. What are the uses of GPS?
92. Whether this projects as any automatic controller for street lights?
93. Whether this can be used in hill stations.

94. Whether this project is suitable for rural and urban areas.
95. How automatic switching of street lights take place.
96. How can you tell that this project is more efficiency?
97. What is the different between generation of electricity by renewable and non-renewable?
98. How can you tell that this project is effectively for generation of electricity?
99. Some examples of non-renewable resource.
100. How can you known the damage of a wind turbine?

31. FOOD MANAGEMENT USING IOT

1. What is advanced interactive Executive?
2. What is Carbon Monoxide?
3. What is External Interface?
4. What is Food and Agricultural Organisation?
5. What is Global System for mobile?
6. What is GPRS?
7. What is Graphical user experience?
8. What is Graphical user interface?
9. What is HTML?
10. What is Integrated Development Environment?
11. What is I/O?
12. What is IOT?
13. What is Liquid crystal Display?
14. What is Light Dependent Resistor?
15. What is Light emitting diode?
16. What is Linear Monolithic?
17. What is LPG?
18. What is Micro controller unit?
19. What is M2M?
20. GIVE Abbreviation for ORACLE?
21. What is PC?
22. What is Random Access Memory?
23. What is Ready only memory?
24. What is Software development kit?
25. What is SMS?
26. What is Transmission control protocol?
27. What is internal protocol?
28. What is Transistor -transistor logic?
29. What is universal asynchronous receiver-transmitter?
30. What is full form of KSCST?
31. What is project?
32. What is Arduino UNO?
33. What is microcontroller?
34. What is the main aim of Arduino?
35. What is DHT11 sensor?
36. What is the 2 different parts of DHT11 sensor?
37. What is thermistor?
38. What is sensor?
39. What is GSM modem?
40. What is gas sensor?
41. What is temperature sensor?
42. What is humidity sensor?
43. What are the applications of LCD?
44. Why LCD are preferred to cathode ray tube displays is most of application?
45. What is the reason for not using phosphor in LCD?
46. What is Light Dependent Resistor?
47. How photoconductivity is raised?
48. What is the use of LCD?
49. What is the basic principle of LED?
50. To get light, in which biased the LED's should be?
51. What is the purpose of using GSM modem?
52. What is moisture sensor?

53. What is the operating voltage of moisture sensor?
54. What is the use of web-cam?
55. Which camera is used in propose project?
56. What are the Hardware requirements?
57. What are the Software requirements?
58. Name the android application development process steps?
59. What is BLYNK server?
60. How does BLYNK server work?
61. Define flowchart?
62. Define result?
63. Give the applications of proposing project?
64. What are the advantages of proposing project?
65. Give the conclusion of this project?
66. What is the difference between Hardware and software materials?
67. Brief the working procedure of the proposing project?
68. What is the future enhancement of this project?
69. Through which the conditions of cold storage messages are sent to mobile?
70. How is this model programmed?
71. What are displayed on LCD display?
72. How the user gets the current conditions information?
73. What are the android application development process steps?
74. What is conceptualization?
75. What is Arduino UNO?
76. What is gas sensor made off?
77. Which sensor in this project is fast in responding and sending information?
78. What is temperature sensor DHT11?
79. What is the condition of temperature sensor?
80. What is the voltage range of LED?
81. What is the forward voltage of LED?
82. What are the features of LDR?
83. What are the specifications of LDR?
84. What are the specifications of LCD?
85. What are the specifications of DHT11 sensors?
86. What are the applications of DHT11 sensor?
87. What are the Features of gas sensor?
88. What are the applications of gas sensor?
89. What are the specifications of gas sensor?
90. What is the objective of this project?
91. What is the title of the project?
92. What is Internet Of Things?
93. What is the aim of Arduino?
94. On what Arduino is based on to?
95. How many pins does Arduino have?
96. Why cameras are used?
97. What is Arduino IDE?
98. What is Integrated Development Environment?
99. What is embedded?
100. Why microcontroller is used?

32. ARTIFICIAL INTELGENCE BASED VISUALIZATION DEVICE

1. What is GPS full form?
2. What does GPS do?
3. What is a sensor?
4. What does an Ultrasonic sensor do?
5. What does an Infrared sensor do?
6. What is Artificial Intelligence (AI)?
7. What is Raspberry Pi?
8. Why is Raspberry Pi 3 b+ module used?
9. Why is Raspberry Pi used why not others?
10. What is a Battery?
11. Why is the capacity of the Battery used?
12. Why is ultrasonic sensor used?
13. What are the components used in project?
14. What are the features of raspberry pi 3 b+?
15. How does raspberry pi work?
16. Which programming language is used in Raspberry pi?
17. What are the advantages of python?
18. What are the advantages of raspberry pi 3?
19. What is the use of raspberry pi 3?
20. Which software is used for raspberry pi?
21. What is battery?
22. What is Artificial Intelligence?
23. How does AI works?
24. What are the other programming languages for Raspberry Pi?
25. What is the purpose of using raspberry pi?
26. What is Tensor Flow?
27. What is Machine learning?
28. What is GPS?
29. Which language is used in machine learning?
30. What is the Difference between artificial intelligence and machine learning?
31. What is the Difference between raspberry pi and Arduino?
32. What is the difference between Raspberry pi B and B+ model?
33. Why raspberry pi used?
34. What is the use of tensor flow?
35. Why Python is used in Raspberry Pi?
36. How GPS works?
37. What is python Tensor Flow?
38. Why is Tensor flow used for?
39. Why tensor flow is mainly used?
40. What language is Tensor flow?
41. What is Machine learning?
42. What is the best programming language for machine learning?
43. What is the purpose of raspberry pi?
44. What are the disadvantages of raspberry pi?
45. Is raspberry pi a microprocessor?
46. Is raspberry pi an embedded system?

47. Difference between raspberry pi and Arduino?
48. Why two sensors are used in the device?
49. Where the device can be placed for the blind person?
50. What is the response time?
51. What type of battery is used?
52. Abbreviation of LIPO battery
53. What is the Advantages of LIPO battery?
54. Why two LIPO batteries are used?
55. What is the resolution of the camera?
56. What is the weight of the device?
57. How accurate is the device?
58. What is the dimension of the device?
59. What is the voice clarity?
60. Is the device sensitive to environmental condition?
61. How the visual thing is converted into audio?
62. What is the cost of the device?
63. How to connect the other components with the raspberry-pi?
64. Is the device is waterproof?
65. How the software is dumped into the raspberry-pi?
66. What is the life of the battery?
67. What is the maximum distance the sensors can sense?
68. Why GPS module is used?
69. Will the device be on all the time?
70. How much days did it take for you all to complete this project?
71. Is this useful for the blind people?
72. How is the information converted to audio?
73. Why is python programming language used?
74. What are the types of ML algorithm?
75. Which type of ML algorithm we use in the project?
76. Why supervised algorithm is used?
77. How the computer is trained with the data?
78. What are the types of supervised learning?
79. What is regression?
80. What is classification?
81. What are the technologies involved in AI?
82. What is the Abbreviation of CV?
83. What is Computer vision?
84. What is the Abbreviation of IP?
85. What is Image Processing?
86. What is the difference between classification and regression?
87. What are different types of neural network?
88. Which type of neural network we are using?
89. What is CNN?
90. What does R CNN stand for?
91. What is TTS full form?
92. Why is TTS used?
93. Why is GPS used?
94. What is the procedure in developing this device?
95. What are the required materials for setup?
96. What is meant by opencv?
97. In which language is the audio for the end user available?

98. What are the advantages of this device?
99. If the device has to be improved, what are the other aspects to be improved?
100. What will be required for the device to be more accurate?

33. TECHNO GLASSES

1. What is IOT?
2. What Role Does The Network Play In The Internet Of Everything?
3. What is Internet of Everything?
4. How Does The Internet Of Everything Relate To The Internet Of Things?
5. How Will Internet of Things (iot) Impact Sustainability of environment or Business?
6. What Impacts Will the Internet of Things (iot) Have on Economic Growth?
7. What Impacts Will the Internet of Things (iot) Have on Health Care Sector?
8. Will Iot Actually Work Over The Internet Or Will It Have Its Own Dedicated Wide Area Network?
9. What Are The Important Components Of Internet Of Things?
10. What are the main Challenges of Internet of Things (iot)?
11. Which Companies And Organizations Support The Industrial Iot?
12. What is a “thing” In the context of Internet Of Things (iot)?
13. How The Internet of Things (iot) makes A Difference to the Businesses?
14. What is Wibree?
15. What is ZigBee?
16. What Impacts will the Internet of Things (iot) have?
17. What Impacts Will the Internet of Things (iot) Have on Transportation Sector?
18. What do we understand by ITS?
19. What Companies Are Working on Internet of Things (iot)?
20. How Does the Internet of Things (iot) Work?
21. What Impacts Will the Internet of Things (iot) Have on Energy Sector?
22. What Impacts Will the Internet of Things (iot) Have on Agriculture Sector?
23. Can All Iot Devices Talk To Each Other?
24. What Is The Standard For Communication Between These Devices?
25. What is meant by a Smart City, in the context Of Internet of Things (iot)?
26. What Is the Difference between the Internet of Things (iot) And Machine To Machine (m2m)?
27. How Energy Consumption Might Affect the Development and Implementation of The Internet of Things (iot)?
28. Who Coined the Term Internet of Things (iot) And When?
29. What Is Industrial Internet of Things (iot)?
30. What Are the Industrial Applications for Wireless Sensor Networks Internet of Things (iot)?
31. What is bolt?
32. Difference between bolt, Arduino and raspberry pi?
33. What is a smart glass?
34. What is a cloud computing specified here as bolt cloud?
35. What is OLED display?

36. What is the difference between OLED and LCD?
37. What is the use of battery in this project?
38. On which idea this project is based?
39. What Is Wi-Fi Protocol for Internet of Things (iot)?
40. What Impacts Will the Internet of Things (iot) Have on Manufacturing Sector?
41. What Is Difference between Wireless Sensor Network (wsn) And Internet of Things (iot) Network (sensor)?
42. Give Few Examples of The Impact of Internet of Things (iot) On Our Lives?
43. How Safety Issue Might Affect the Development and Implementation of The Internet of Things (iot)?
44. What is cloud computing?
45. What are the benefits of cloud computing?
46. What is a cloud?
47. What are the basic characteristics of cloud computing?
48. What are the essential things that must be followed before going to cloud computing platform
49. What are the types of data used in cloud computing?
50. How can a company benefit from cloud computing?\
51. What are Hybrid clouds?
52. What is the difference between cloud computing and mobile computing?
53. What is meant by software as a service?
54. How many kinds of clouds are present?
55. What is private cloud?
56. What is public cloud?
57. What are the open source cloud computing platform databases?
58. What are the basic clouds in cloud computing?
59. What are some large cloud providers and databases?
60. What is Artificial Intelligence?
61. What is technology?
62. Where is future technology advancing?
63. What are the various areas where AI (Artificial Intelligence) can be used?
64. Name some AI's that is being used?
65. What is an Arduino?
66. What is a Raspberry Pi?
67. Difference between Arduino and Raspberry Pi?
68. What are GPIO Pins?
69. What is PWM?
70. List some applications of PWM in IOT?
71. What sensor and actuator are used to control any home appliances from any IOT devices in wired mode?
72. What is BLE?
73. What is the use of BLE in IOT?
74. What is Windows 10 IOT Core?
75. Can IOT take over human mind?
76. What Is Bluetooth Low Energy (BLE) Protocol for Internet of Things (iot)?
77. What are Android things?
78. What are the most used sensors types in iot?
79. What are the sensors can be used in Agriculture?

80. What is purpose of Airflow sensors?
81. List out some of water sensors?
82. What are suitable databases for Iot?
83. What are the most widely used protocols in IOT?
84. What is role of publishers in IOT?
85. Who are subscribers in IOT?
86. What are the key features of IoT?
87. What is data collection in IoT?
88. What is Radio Protocol?
89. What is application of IoT in Environmental Monitoring?
90. What is Iot Thingworx?
91. Why Internet of Things (IoT) will be successful in the coming years?
92. What is Wi-Fi Protocol for Internet of Things (IoT)?
93. Is Mobile phone IoT device?
94. What kind of data does Internet of Things objects convey?
95. What are the distinctive parts where the Internet of Things can really enhance the present procedures?
96. What are the fundamental difficulties of the Internet of Things usage?
97. What are the dangers and difficulties that we ought to know about with regards to the Internet of Everything?
98. What does WSN represent in Internet of Things idea?
99. Why will the Internet of Things be effective in the coming years?
100. What are the basic advantages and disadvantages of IOT?
101. Does Intel provide IoT Platform?
102. What is IoT in TCS?

34. RECLAMATION OF POMOGRANATE INDUSTRY WASTE

1. What is the aim of the project?
2. What is pomegranate?
3. Which family does pomegranate belong?
4. Scientific name of pomegranate?
5. Explain the anatomy of pomegranate?
6. What are the major parts of pomegranate?
7. In which region pomegranate is mainly cultivated?
8. Which soil is more suitable for growing pomegranate?
9. What should be the climate conditions for growing pomegranate?
10. How many fruits can one pomegranate tree produce?
11. How much time does pomegranate flower can take to become fruit?
12. How much water is required to grow pomegranates?
13. What is approximate lifespan of pomegranate tree?
14. Which season is more suitable for the growth of pomegranate?
15. How much space can one pomegranate tree occupy?
16. What is approximate height of pomegranate tree?
17. What is the duration of pomegranate to ripen?
18. What are the cultivars of pomegranate?
19. Whether pomegranate tree is perennial or not?
20. Which is the best fertilizer for the cultivation of pomegranates?
21. What is the shape of pomegranate seeds?
22. How many seeds does one pomegranate fruit produce?
23. What are the important constituents of pomegranate seeds?
24. What is the life span of pomegranate fruit?
25. What are pomegranate seeds?
26. What is colour of pomegranate seeds?
27. Where do we use pomegranate fruits?
28. What is the main waste in pomegranate fruit?
29. Where do the industrial people discard the wastes?
30. What it will cause?
31. In India annually how much pomegranate is cultivated?
32. How much fruit is utilized in juice Industries?
33. How many juice industries are there in India?
34. What are the major constituents of pomegranate juice?
35. What are benefits of pomegranate juice to human?
36. How pomegranates are beneficial to Indian economy?
37. What are the different ways in which pomegranate seeds can be utilized?
38. How we can separate pulp and seed?
39. What is moisture content of pomegranate seeds?
40. What are the different ways to remove moisture from seeds?
41. What is the approximate weight of pomegranate fruit?
42. What is the approximate weight of pomegranate seeds in a fruit?
43. What are the different methods used to extract oil from seeds?

44. What is distillation?
45. What are the steps used in distillation process?
46. What is supercritical extraction?
47. What is principle behind the supercritical extraction?
48. What are the steps used in supercritical extraction process
49. Which is the gas used in supercritical extraction?
50. How it is more efficient than other extraction process?
51. Which is the main fatty acid present in seeds?
52. What are different tests used to check the quality of the oil?
53. What is GC (gas chromatography)?
54. What is the principle behind the working of GC?
55. What is acid value test?
56. How we will conduct the acid value test?
57. What is the range of acid value to consider it as a good quality oil?
58. What is peroxide test?
59. How we will conduct the peroxide test?
60. What is essential oil?
61. What is hydrophobic liquid?
62. What are the other names of essential oil?
63. Which is the colouring agent present in pomegranate peel?
64. Can we use this colour in textile industry?
65. How we will fix the colour in cotton?
66. What is mordant?
67. Name the mordant which are generally used?
68. How much peel is present in pomegranate?
69. What is the effect of pomegranate peel waste?
70. What is the process to extract colour from pomegranate peel?
71. Can we use this colour in food industry?
72. What is the effect of artificial colour used in food Industries?
73. How can we reduce this effect by using natural colour?
74. How much this is economic?
75. What is tinsel?
76. What will happen if the pomegranate seeds are white?
77. What are the steps involved in powdering of pomegranate peel?
78. What are the chemicals or fabrics used for the dying purpose?
79. What makes pomegranate to vary in colour?
80. What is aril of pomegranate?
81. What is the white fleshy substance under the pomegranate skin?
82. How HFD related to pomegranate based on recent research?
83. What is the outer peel or husk of the pomegranate ?
84. From where that antioxidant content of the juice comes from?
85. What is membrane in pomegranate?

86. What is the thickness of pomegranate peel?
87. How do we conduct quality analysis test for the dye which is extracted from the peel?
88. What are anthocyanins?
89. What is monoanthocyanin?
90. Which is the solvent used in dye extraction?
91. What is the ratio of solvent used in dye extraction?
92. Why peel is not consumed?
93. What are the advantages of natural colour?
94. What is the harmful effect of artificial colours?
95. What are the advantages of super critical fluid extraction?
96. What are the disadvantages of distillation process?
97. What is the main ingredient of seed oil?
98. How pumice acid is beneficial for our health?
99. How our project beneficial to society?
100. What are flavonoids?

35. BEACH CLEANING

1. Does the machine work on solar?
2. Is it manually controlled?
3. Is it automated?
4. Is it programmed?
5. Can we use sensors?
6. Can we modify and use it for large waste collection?
7. At how much voltage the machine works ?
8. Which wheel is used?
9. What type of wheel can be used?
10. Instead of wheel what can be used?
11. Does it have Arduino?
12. What type of waste can it collect?
13. What type of motor is used in this project?
14. What is used as a sand separator?
15. At which software the project design is used?
16. Who is your team guide?
17. Team members name?
18. Total members in this name and their name?
19. Which battery is used?
20. Is the battery is rechargeable?
21. Can we solar for energy purpose?
22. How the waste collection works?
23. Where the bin is located?
24. Where the sieve plate is located?
25. Why vent hole is provided at an angle?
26. Why small inclination is made near vent hole?
27. How sand separation word?
28. Can it work for any beach?
29. Does it controlled by anyone?
30. Can we use wireless remote control?
31. Can we use smart remote like mobile pairing?
32. What type of materials used in making the body of this project?
33. What type of materials used in sieve?
34. How many days took to build this project?
35. Can be the project is modified?
36. Can this mechanism used for water waste removal purpose?
37. What should be changed to use it as a water waste remover?
38. Does it is eco-friendly?
39. Does it come under swachbharath?
40. From what you got idea to make such project?
41. Does this project works on any place?
42. How this project does helps for good and clean environment?
43. Does this project can control pollution?
44. Does this project built for what type of area it should be worked ?
45. Is the contraction simple?
46. Is the project maintenance is needed?
47. Maintenance cost less or high?
48. Why the maintenance cost is less or high?

49. Which electronic board can be used for programming purpose?
50. How much costed to build this project ?
51. Which is the costly part in the project
52. How much costed for tyre?
53. From where the tyres buyed?
54. Is the tyrebuyed online or nearby shop?
55. Does any project item used from old mechanism?
56. Is any item recycled to build this project?
57. What is used as a waste collector?
58. How the waste collector works?
59. How sieve plate works in separation of waste and sand?
60. Does you made this project first time?
61. Why the inclination is made in such way. After the waste collection.
62. Why we need to clean beaches..
63. What is the use of cleaning the beach?
64. How the pollution causes in beach?
65. How the pollution occurring in beach can be prevented?
66. What will happen when beach is polluted? \Who is the main cause for the pollution?
67. How this pollution effect aquatic life?
68. How water pollution effect water bodies?
69. How can water pollution be reduced and prevented?
70. How the waste causes sand pollution?
71. How it is helpful for public and nature?
72. How is the efficiency of this beach cleaning rover?
73. On what basis u got this idea?
74. From which college your team from?
75. Do you people enjoyed making this project?
76. How you people designed the vehicle in such way?
77. Does it can be built in smart features?
78. Does it can be operated by non-technical person?
79. Does it can be used for water bodies?
80. How the solid pollution cause air pollution?
81. Does this pollution cause decrease in aquatic life?
82. Does the pollution cause the beach look weird?
83. What if their exist pollution near or surrounding beach?
84. Why people go to beach?
85. Why people make pollution in beach?
86. What type of materials cause to pollution?
87. Why people threw waste when there is bin around beach?
88. How wastes come in contact with water?
89. How can be pollution can be optimised?
90. Where u did made this project?
91. How long it take to clean the beach?
92. How much waste it can hold?
93. How the waste can be removed from the bin present inside the beach cleaning rover?
94. Thus the vehicle be a future beach cleaning robot?
95. How long the machine work?
96. What should do when bin become full.
97. What will happen when the rover comes in contact with water?

98. What are the advantages of the beach cleaning rover?
99. Does it can be used in day?
100. When can be used , day time or both day and night time?

36. BLDC DRIVEN HYBRID TWO WHEELAR

1. What is energy?
2. Different method of generation of electricity.
3. Different type of energy
4. Define kinetic energy
5. Define potential energy
6. Define power
7. What is current?
8. What is voltage?
9. What are conductors?
10. Define insulator.
11. Define semiconductor.
12. Define AC current
13. Define DC current
14. What is resistor?
15. What is capacitor?
16. What is inductor?
17. Define ohms law.
18. Faradays law.
19. Lenz law.
20. What is relay?
21. Define turbine.
22. Define cell
23. What is battery?
24. Types battery
25. Advantages of battery
26. Law of conservation of energy
27. What is magnetic flux?
28. What is electric flux?
29. What is transformer?
30. Types of transformer.
31. What is motor?
32. Applications of motor
33. What is generator?
34. Application of generator
35. Different types of motors?
36. Application of motors
37. Different types of generator?
38. Application of generator
39. Define armature.
40. Define stator.
41. Define rotor.
42. Define commutation.
43. Define shaft.
44. Fleming's right hand rule
45. Fleming's left hand rule.
46. Define efficiency.
47. Define engine
48. Types of engines
49. What is combustion?
50. Define internal combustion engine.
51. Define external combustion engine.
52. Define BLDC motor
53. Application of BLDC motor

54. Difference between DC motor and BLDC motor
55. What is sensor?
56. Define hall sensor
57. How hall sensor work
58. Define velocity/speed
59. Define acceleration
60. Define distance
61. What is hub motor?
62. Different modes of engines.
63. What is regeneration?
64. Define regenerative breaking.
65. Methods of regeneration.
66. Application of regeneration.
67. Advantages of regeneration.
68. What is speedometer?
69. What is meter?
70. What is hybrid?
71. What is hybrid vehicle?
72. Advantages of hybrid vehicle.
73. What is MCB?
74. Difference between petrol and diesel vehicle
75. Advantages of electric vehicles
76. What is electric vehicle
77. Advantage of electric vehicle.
78. How electric vehicle work?
79. Define controller
80. Different type of controller
81. What is PLC?
82. What is induction motor?
83. What is synchronous motor?
84. Define EMF.
85. Types of EMF.
86. What is pollution
87. Different types of pollution
88. Effects of pollutions
89. Precaution taken to avoid pollution
90. What is bio-diesel?
91. Advantages of bio-diesel.
92. Difference between linear and circular motion.
93. What is stator motor?
94. What is silencer?
95. Advantages of silencer
96. What is braking?
97. Types of breaking.
98. What is lubrication?
99. What are engine oils?
100. What is choking?

37. ARTIFICIAL PLANT EMOTION XPRESSOR

1. What is Arduino?
2. What is the stable version of Arduino software?
3. Who is the developer of Arduino?
4. Why we should use Arduino?
5. In which language is Arduino software written?
6. What are the advantages of Arduino?
7. What are the 3 important parts of Arduino?
8. What are the software structure functions?
9. What are libraries in Arduino?
10. How many types of Arduinos do we have?
11. How many digital pins are there on UNO board?
12. What license is Arduino distributed under?
13. What is the extension of the file saved from Arduino IDE?
14. Using what language Arduino is coded?
15. What is IDE full form?
16. What does GPIO stand for?
17. What is the default bootloader of the Arduino UNO?
18. What is the microcontroller used in Arduino UNO?
19. What does IDE stand for?
20. What are the few basic Arduino functions?
21. What are the different communication interfaces used by the Arduino
22. What is UART communication?
23. What is I2C?
24. What is SPI?
25. What is the type of USB present in the Arduino?
26. What is the microcontroller used?
27. What is Node cu?
28. What is the firmware used for Node cu?
29. What is a firmware?
30. Where is firmware stored?
31. Can a firmware be rewritten?
32. What is a SOC?
33. What is the language on which firmware of node cu written?
34. What is esp8266?
35. What is Lau scripting language?
36. How Node MCU is coded?
37. Can python be used for coding Node MCU?
38. What type of port is used by Node MCU for coding?
39. What is ESP32?
40. What is the cloud used?
41. What is Ubidots?
42. What is Ad fruit database?
43. What is Firebase?
44. What is the communication protocol used between node cu and Arduino?
45. What is the sensor used for measuring pH?
46. What are the other different sensors used?
47. What does the LED screen used displays?
48. What does the app display?
49. Using what language the app is developed?
50. What is flutter?

51. What is dart?
52. What is Hydroponics?
53. What are the different types of hydroponic systems?
54. What is NFT?
55. What is DWC?
56. What is wick hydroponics?
57. What is ebb and flow method?
58. What is drip hydroponics?
59. What is aero ponies?
60. What is aquaponics?
61. What is bloom booster?
62. What are the different holding materials used in hydroponics?
63. What is chlorosis?
64. What are clay pebbles or grow rocks?
65. What is Rockwool?
66. What is perlite?
67. What is vermiculite?
68. What is oasis cubes?
69. What is Growstone Hydroponic Substrate
70. What is floral foam?
71. What is river rock?
72. What is pine shaving?
73. What is Composted and aged Pine bark?
74. What is Poly (Polyurethane) foam insulation?
75. What is rice hull and how it is used?
76. How is sand used in hydroponics?
77. Which holding material is used in our project?
78. What are the different hydroponic techniques implemented in our project for research?
79. What are the different plants grown during our research?
80. How many cycles does a hydroponics type of farming consists of?
81. What happens in the seedling stage?
82. What happens in the plant stage?
83. Why yield is doubled in case of hydroponics?
84. What are the benefits of hydroponics to the nature?
85. What is coco coir or coco fibre?
86. What is aquaponics?
87. What is electrical conductivity?
88. What is pH?
89. What is the ideal pH value for the plants?
90. What is fogponics?
91. What is grow light or lamp?
92. What is grow tent?
93. What is grow tray?
94. What is hygrometer?
95. What is leaf curl?
96. What are macronutrients?
97. What is medium or media?
98. What is nutrient solution?
99. What are that advantages of hydroponics?
100. What are the different crops grown in hydroponics system?

39. HELP OUR FEEDERS FARMERS

1. What is irrigation?
2. What if a plant requires very little amount of water?
3. What is drip irrigation system?
4. What are the different types of soil?
5. What is a breadboard?
6. How can the connections be made on the breadboard?
7. What is IOT?
8. How will sensors help in making agriculture irrigation system an automated one?
9. How do I determine the total amount of irrigation water from real crop field?
10. How to test nutrient efficiency of a crop?
11. Why can't we implement a solar irrigation system in the present project?
12. What is Jumper pins used in the project?
13. How will conversion of power help the pump to release water?
14. Why should we use 12v rechargeable battery?
15. Why should we be added to our project?
16. How is this project helpful to farmers?
17. Doing this project? What can we get?
18. What is Bluetooth module?
19. How does Bluetooth device help in the project?
20. How to run our project through electricity?
21. What is LCD used for?
22. Why do we call our project as smart or automated?
23. Why is our project using this kind of technology?
24. What is a controller?
25. How does controller help in our project?
26. What is the role of using circuit board?
27. How to control our system in mobile?
28. What are relays?
29. Why do we need relay cables?
30. Why do we need different amount of water for different crops?
31. How to create division between different crops?
32. What is a flow sensor?
33. How many types of sensors are we using in the project?
34. What is pH?
35. How is pH related to the type of nutrients required?
36. How to maintain the pH of the soil?
37. What should be the pH of the soil for farming?
38. How to channelize water?
39. What is a sensor made up of?
40. How does a 4 Channel Relay work?
41. How is a farmer benefitted through this project?
42. What is a Microcontroller?
43. How to program a Microcontroller?
44. Do we program individually for every sensor?
45. What are codes?
46. How many types of programming languages are there?
47. What is Arduino?
48. What the types of Arduino?

49. What is a moisture sensor?
50. Will the sensors work when placed inside the soil?
51. What is Wi-Fi module?
52. Why is Wi-Fi module used?
53. What sis a pump?
54. How does a pump work?
55. How to create an app?
56. How is automated irrigation system controlled through the app?
57. Where do we buy components for the project?
58. What is a valve?
59. Why do we use a fuse?
60. What is humidity?
61. What is the use of temperature sensor?
62. How to maintain water level?
63. From where does the water enter the crop field?
64. Why is the motor used along with the pump?
65. Why should we use 3 in 1 soil meter?
66. Why should we use sensors in our project?
67. How will the sensors play a role in irrigation system to make it automated?
68. What is the need for using Arduino Uno?
69. What does Arduino uno mean?
70. Why use of relay in our project?
71. How does relay help in directing the flow of water?
72. What are the types of valves?
73. How does the Solenoid valve work?
74. Is it necessary to use bread boards for the connections?
75. What does male to male jumper connections mean?
76. What does female to female jumper connections mean?
77. What does female to male connections mean?
78. How to implement the software for our project process?
79. Why can't we use other controllers?
80. What is programming of controller?
81. How to code for the controller in our project?
82. What are the different languages of programming?
83. Why do we use python and what's its role?
84. How does GSM module play a role in our project?
85. How does our project bring an effect in the present day agriculture field?
86. Is it difficult for the farmer to use?
87. What will be the cost of sensors?
88. Where are sensors manufactured?
89. Is sprinkler a good thing to be installed in fields?
90. What will be the cost of our project?
91. How to install our project in all the farming areas?
92. How is irrigation done in areas where water availability is very less?
93. How to easily teach the farmers to use the app?
94. How to repair the system if necessary?
95. What is a rechargeable battery?
96. What is a PCB (as it was connected with the moisture sensor)
97. Will the insertion of sensors into the soil harm the crops?

98. After irrigation where will the water flow?
99. If a farmland is very far from the power supply, and if there are many crops then how to install this project into such a land?
100. How to understand codes of a programming language and create?
101. Will the project be feasible even during monsoon season?
102. How to change the water required for the crop when the farmer changes the crop?
103. How much amount of water can the tank pump at a time?

39. ARECANUT PLUCKING MACHINE

1. What is the total weight of the project?
2. Which motor is used for climbing?
3. Which type of mechanism is used for climbing?
4. What is total length of arm?
5. What type of mechanism is used in telescope action of arm?
6. What is total time required for climbing?
7. Which are types of material selected in project?
8. What is the total power required to run the machine?
9. Which type of controlling system is used?
10. Which type of power transmission system used?
11. What is the total time required for plucking?
12. What is the total number of trees that can be covered in one climb?
13. What is the total number of trees that machine can spray?
14. What is the charging capacity?
15. Total cost of machine?
16. Is this machine suitable for all types of areca trees?
17. Is there any failure caused to the machine during plucking?
18. How do we detect the proper location of arecanut?
19. What is the speed of cutting motor?
20. Why have you selected chine saw rather them cutting blade?
21. Why have you used G.I rod in arm?
22. What is the number of teeth in driver sprocket?
23. What is the number of teeth in driven sprocket?
24. Why have we selected chine drive rather using belt drive?
25. What is the type of material is used in making wheels?
26. What type of bearing is used?
27. Why grooves are provided in wheels?
28. Why have you provided spring at the base?
29. What is the Maine reason for developing this machine?
30. What made you prefer WIFI module rather than R.F transmitter?
31. Why is the arm length 12 feet?
32. Will the machine get damage if areca nut falls over it?
33. Why have we not adopted wire controlled system?
34. What is the speciality of your machine compared to other?
35. Can the same type of machine be adopted for coconut plucking?
36. Which chain have you used ?
37. What is the length of the lead screw?
38. Why 2m length lead screw is used?
39. Size of the nut?
40. What type of thread system used in lead screw?
41. Maximum power consumed?
42. Why cabin is provided?
43. What is the height of the cabin?
44. What is the centre distance between sprocket?
45. What type of bolt is used to connect motor?
46. What is the length of outer rod of telescope?

47. What is the diameter of outer rod?
48. Why bearing is used at the end of telescope?
49. What is the diameter of inner rod?
50. Length of the inner rod?
51. What kind of motor is used for arm?
52. No. of teeth on base 360° mechanisam gear have?
53. No. of degrees of freedom in the arm?
54. What are the types of robotic arm mechanism used?
55. No of teeth on 180° mechanism gear have?
56. What type of mechanism is used in 180° arm rotation?
57. No of teeth on sprocket of chain saw blade?
58. Centre distance between of sprocket and chain saw?
59. Why have you used two 12v batteries instead of one 24v battery?
60. What material is used in battery cabin?
61. Length of battery cabin?
62. Width of battery cabin?
63. Height of battery?
64. Why a L shaped rod is provided at the top end?
65. Type of cutting mechanism used in chain saw?
66. What type of programming language used to program Arduino?
67. What is the technical name given to your controlling system?
68. What kind of material is used in rectangular column?
69. Length of aluminium column?
70. Width of aluminium column?
71. Which material is used for telescopic arm?
72. Diameter of flange bearing?
73. Length of wheel?
74. Length of the wheel shaft?
75. Diameter of the wheel?
76. Diameter of the wheel shaft?
77. Material used in wheel shaft?
78. How the sprocket on wheel shaft is prevented from slipping?
79. Type of gripper provided on the wheel?
80. Is there any type of damage to recant trees while it's climbing?
81. Why you have used nylon rollers for wheel?
82. What is the range of controlling system?
83. Mode of controlling the machine?
84. Type of motor used in cutting saw?
85. Why bicycle tyre is used?
86. Angle of mounting of cabin to aluminium column?
87. Speed of cutting saw?
88. Total distance that the telescopic arm can expand?
89. Type of spring used?
90. Time required for full extension of telescopic arm?
91. From where did this idea of mechanism originated?
92. What are the future developments that can be made?
93. What are the different types of mechanism used in arm?

94. What type of lubrication is used?
95. Is lubrication required?
96. What type of oil is used?
97. Speed of rotation of arm ?
98. No of person required for operation?
99. Is it possible to work in rainy day?
100. No .of spring used?

40. PLANATONOMUS

1. What is plantonmous used for?
2. What type of motor you have used?
3. What is plantonmous used for?
4. What type of motor you have used?
5. What is the purpose of ultrasonic sensor??
6. What material you have used for the chassis?
7. What is used for sensing water moisture level
8. What DEVICE is used for image processing??
9. What is the megapixel of your camera?
10. What is the steering system used?
11. Why we used belt instead of tyres?
12. What is used to rotate the camera?
13. What is used to identify the Object is to the Tractor?
14. Which controller used for movements
15. What is maximum voltage of the Arduino controller
16. What is the Total weight of the vehicle?
17. Prototype ratio?
18. Function of the PLANTONOMUS machine??
19. Who is the project guide??
20. What is the company name of your micro controller?
21. What type of actuators you have used for harvesting?
22. Who will be benefited by this project?
23. Which method is used to control the front and back of motor
24. Which language is used in Arduino?
25. What is the application used to develop mobile app??
26. What is speed of your vehicle?
27. What is size of the plantanomous app
28. What is the database used?
29. Which language is used in rasperrybi
30. What is the library used for Object Identification?
31. Which is used to measure the distance?
32. How will you select the Particular area that you have chosen??
33. What are the sensors used in your system?
34. How long did u do the project??
35. How many members worked?
36. Where you collected the data sets?
37. Advantages for customers:-
38. What is your budget of the project
39. What is your problem statement?
40. What is the concept we used in data transfer
41. Which departments are involved in this project?
42. How will it separate the objects?
43. Which is the crop you are going to choose?
44. Why you choose cotton farming?
45. Maximum distance covered by ultrasonic sensor
46. How to keep vehicle inside the field?
47. What is the gear ratio?
48. How does the tractor move?
49. Which device is used for iot?
50. How you will find object in night time?
51. What would be the cost of machine we make product?

52. Which principle is behind the ultrasonic sensor
53. What are all the additional works it can do?
54. Is it battery operated?
55. What sprays/pesticides/herbicides do you use?
56. What is animal husbandry?
57. Which motor driver used in plantanomous
58. How the animals or birds can be caught off by the Machine?
59. Which basic math function is used for image processing
60. Examples of Khari crops
61. Which principle is behind the motor
62. Our future prospects??
63. What is the logo of the plantanomous
64. What is a crop?
65. What inspired you guys to do this project
66. What is the maximum voltage output of nodemcu
67. What is the future business plan of plantonomous?
68. How you charge the vehicle?
69. Can you monitor to the machine in live?
70. Does the product affect the environment in anyway?
71. Is it want to operate by any human intervention
72. What are Khari crops?
73. What is your targeted market and why?
74. Why you use lithium ion batteries?
75. How will the product be introduced in the market?
76. What is the power of the vehicle??
77. What is cultivator?
78. What is Hoe?
79. What is meant by Ploughshare?
80. What is plough?
81. Who do you consider as your major competitors and why?
82. What type of battery you have used
83. What is Preparation of Soil?
84. How will you teach the farmers?
85. How to vary the speed of the plantanomous
86. What is the price you have planned to sell?
87. What are the future products you gonna release?
88. What are software you have used to learn about autonomous farming?
89. Are you going to make this as business?
90. Have you applied for patent it?
91. That is the cost you have spent for your prototype?
92. How the plantonomous handle the uneven land geometry?
93. Is there is any plans to use plastics for manufacturing your cart?
94. How will alarm the animals on the field?
95. How will you get through the market of farmers
96. How much time it requires to work in field?
97. Who is your competition?
98. What is size of your prototype?
99. What is the biggest problem it solves?
100. What is the main benefit of the project?

41. ENVIROTARD PAVEMENT BLOCK

1. What does Nano size mean?
2. What is pollution?
3. What are UV rays?
4. What is a concrete?
5. What is voltage?
6. What is electron volt?
7. What is a photon?
8. What is energy packet?
9. In which form the UV rays travel?
10. What is the chemical formula of Titanium dioxide?
11. What are free radicles?
12. What is a pavement block?
13. Where are the pavement block used?
14. What is a photo catalyst?
15. Does catalyst get consumed in a reaction?
16. What are the uses of catalyst?
17. What is a reduction reaction?
18. What is oxidation reaction?
19. What is the process involved in chemical reaction?
20. What are the sources of pollutants?
21. What are the harmful effects of pollutants?
22. What are the reasons for the cause of pollution?
23. Why is pavement block used in the project?
24. What are the products of chemical reaction?
25. What is the wavelength of uv rays?
26. What is an electron?
27. What is the charge of an electron?
28. What is the basic principle involved in the project?
29. What is band gap?
30. What is a catalyst?
31. Why is a catalyst added to the substrate?
32. What is the color of Tio2?
33. How is tio2 synthesized?
34. What are the effects of pollutants on animals and plants?
35. How is a concrete block prepared?
36. What is the water cement ratio used?
37. How many days the concrete was cured for?
38. What is the sizes of fine and course aggregate used?
39. What is the impact of concrete on co2 emissions?
40. What is the compressive strength of concrete?
41. What is the use of concrete in our daily life?
42. What are the important features tio2?
43. Does the tio2 wear off the surface?
44. What is the bandgap of tio2?
45. What is valence band?
46. What is electron hole?
47. What is recombination?
48. What excitation of electron?
49. What reaction does TiO2 undergo with NO2 when UV rays are present?
50. Is TiO2 harmful in any way?
51. Why NO2 content reduction is necessary?

52. What happens to NO2 when reacted with Tio2?
53. Does By-product of this reaction is harmful to us in any way?
54. Dose Rhodamine B lose its colour in sunlight even when Tio2 isn't applies?
55. How will you prove that No2 is reacting with TiO2 to produce NO3?
56. What happens to NO3 after reaction?
57. How long can this process go on?
58. What is TiO2?
59. What are properties of Rhodamine B?
60. What is role of UV Rays in the reaction?
61. What type TiO2 are you using in this experiment?
62. Does it have anything to do with the grade of concrete used?
63. In which all places can be use this concept?
64. What is colour of Tio2?
65. What is colour of Rhodamine B?
66. What can be used instead of Rhodamine B to prove this experiment?
67. What is Rhodamine B?
68. Where do we find free radicals OH- and O^2-?
69. Where is the best place to use our project?
70. Where can we use this project efficiently?
71. Mention the types of Rhodamine?
72. Is it efficient to use this concept with respect to economic view?
73. How much would a concrete brick cost without Tio2?
74. How much would a concrete brick cost with Tio2?
75. Is it cheaper or expensive than regular brick?
76. After what period of time must be process repeated?
77. What are the ill-effects of NO2 on the surrounding?
78. What is NO3-?
79. Is NO3- harmful?
80. Up to what extent pollution can be reduced?
81. What other pollutants can be reduced by the usage of Tio2?
82. What is the market price of Tio2?
83. What is market price of Rhodamine B?
84. Rhodamine B is used in which industry?
85. What is semiconductor?
86. What are conduction and valence bands?
87. What is forbidden energy gap?
88. What is Fermi level?
89. How to prove photo catalysis?
90. How do you prove self-cleaning property?
91. What are pros and cons of our exp?
92. What size of concrete block is being used in exp?
93. Is Tio2 easily available in the market?
94. Is it possible for India to practice this?
95. .What is the pre-requisites to implement this project in developed nations?
96. What are the pre-requisites to implement this project in developing nations like India?

97. Can this help us in the reduction of medical expenditure?
98. Can air purifiers be replaced by application of TiO2 on the surfaces?
99. If Tio2 only works under UV rays, will it work in winter season?
100. What are the advantages of using envirotard pavement block?

42. DISEASE CONTROL DEVICE

1. What are Insect borne diseases?
2. Do Insects carry diseases?
3. How can insect-diseases be prevented?
4. What are the diseases caused by Insects?
5. What are the diseases caused by mosquitoes?
6. Why are mosquitoes so deadly?
7. What are the diseases caused by houseflies?
8. What are the diseases caused by cockroaches?
9. What are the life stages of an insect with a complete lifecycle?
10. Why do mosquitoes found around water?
11. How fast can mosquitoes fly?
12. How high can mosquitoes fly?
13. Why do mosquitoes bite?
14. How much blood does a mosquito take in a meal?
15. If mosquitoes were eradicated, how would this affect eco system?
16. What is NOT a good way to protect you from mosquito bites?
17. Why do mosquitoes feed on blood?
18. What good do mosquitoes do?
19. Are mosquito bites dangerous?
20. Are mosquitoes attracted to light?
21. Can mosquitoes bite through clothes?
22. Why do mosquitoes make buzzing noise?
23. Do mosquitoes come out in a day?
24. What attracts mosquitoes to me?
25. Do mosquitoes bite cats and dogs?
26. What Is a natural enemy?
27. What is biological control of Insect pests?
28. What is chemical control of Insect pests?
29. What is physical control of Insect pests?
30. What is the Clarke's classification based on the changes in temperature in the aspect of killing mosquitoes?
31. What is ramp function?
32. What is Step function?
33. What is the maximum temperature that a mosquito can withstand?
34. What are the present techniques which are used to kill mosquitoes?
35. How do you kill mosquitoes in water?
36. What are the drawbacks of currently using techniques to kill insects?
37. When does mosquito spray expire?
38. When was mosquito repellent invented?
39. What are the advantages of this device in comparison with other insect killing techniques?
40. What is idea behind the project?
41. What is the contribution of device towards the society?
42. Did the usage of device has been done practically?
43. What are the main objectives of the device?
44. What is the working procedure of the device?
45. What are the characteristics of the device?

46. What are the applications of the device?
47. What are the main components of the device?
48. Is the device portable?
49. Why the device is eco-friendly?
50. How much does the device weigh?
51. What is the cost of the device?
52. What is the length of the device?
53. Why hot air is used?
54. How hot air is generated?
55. What is electric coil?
56. What is the maximum temperature that a coil can produce?
57. Which material is used in electric coil?
58. Why Nickel chrome material is used?
59. Is Nickel plating Is durable?
60. What are the advantages of chromium plating?
61. What are the main laws used in the device?
62. What is ohm's law?
63. What is joule's law?
64. What is D.C Motor?
65. Why D.C motor is preferred over A.C motor in this device?
66. What is the difference between DC motor and AC motor?
67. What is the operating voltage of DC motor?
68. What is the maximum rotational speed of DC motor?
69. What is the shaft diameter of DC motor?
70. What is the shaft length of DC motor?
71. What is regulator?
72. Why fan casing is provided?
73. What is the use of Nozzle in the device?
74. What is the material used for body cover?
75. Why coil holding pipe is used?
76. What is the maximum distance of coverage of hot air?
77. What is the range of device with respect to effect on insect?
78. In which fields this device is used?
79. What is the lifespan of the device?
80. Is this device reusable?
81. Any skills required for using the device?
82. Does this device can be used in agriculture?
83. Does this device help in studying the biological aspects of insects?
84. What is the commercial aspect of this device?
85. Whether the heat should be supplied continuously or once supplied is enough for killing the insects?
86. Firstly which part of the insect is affected when the heat is supplied?
87. What is the main reason behind the thought of building such a device?
88. What is the present need of these type of devices to society and why?
89. Does it obey all ethical and social aspects regarding harmfulness?
90. Will the heat of the equipment be maintained in an open area?
91. What circumstances may occur if you use other material than specified?

92. Can the device be maintained in normal room conditions or some other condition required?
93. How many days the device can be kept unused?
94. Should any changes be done if the device is kept on regular usage like changing the fan?
95. What is the aim of the project?
96. What is the purpose of the device?
97. Can it be used by rural people also?
98. Is this device cause any effect on human beings?
99. What is the time taken by the device to kill insects?
100. Does it kill all kinds of insects?

43. SASOYAJAS

1. What is Sasyojas?
2. What is photosynthesis?
3. What is main principle involved in the sasyojas project?
4. What is photosynthesis rate?
5. What is symbolic representation of the Carbon dioxide?
6. What is symbolic representation of oxygen?
7. What is symbolic representation of water?
8. What plant takes from environment?
9. What plant gives out to environment?
10. What are the different kinds of pollution?
11. What is soil erosion?
12. How plant controls the pollution and soil erosion?
13. Which kind of pollution is mainly controlled by plant?
14. Does deforestation is the reason for global warming?
15. What is renewable energy?
16. What are different source of renewable energy?
17. What is solar energy?
18. What is wind energy?
19. What is tidal energy?
20. What does non-renewable energy means?
21. What is the source for non-renewable energy?
22. How non-renewable product is formed?
23. Where we find these non-renewable products?
24. How we extract these non-renewable products?
25. Give example for the non-renewable energy?
26. What does plant produce using photosynthesis?
27. Give photosynthesis reaction?
28. What is waste of the plant?
29. Where the plant waste is stored?
30. Only the fruits are consider to be plant waste?
31. What are different kinds of soil?
32. What is micro-organism?
33. Which type of micro-organism is present in the soil?
34. Does the micro-organism present in the soil helps the plant?
35. What this micro-organism consume for surviving?
36. What by product this micro-organism gives out?
37. How plants are classified?
38. How many categories of plants are present?
39. Which category plant is best suited for sasyojas?
40. Why you carried out cactus family plant?
41. What are C4 Category plants?
42. What are the scientific name of the plants on which research is carried out?
43. Which plant has highest photosynthesis rate?
44. What is life span?
45. How roots are classified?
46. What is tap root?
47. What is fibrous root?
48. Which root is best suited for this project?
49. What is anode?
50. What is cathode?
51. What is anodic material used in this project?

52. What is cathode material used in this project?
53. Where does anodic material and cathode material placed in this project?
54. Why anode material should touch the roots?
55. Do the cathode and anode material is used here are easily available?
56. Is possible to use other material as anodic and cathode?
57. Which kind of anode and material is used in pencil cells?
58. Why zinc is not used in this project?
59. What does the word biodegradable means?
60. What is the meaning of non-biodegradable?
61. Why should we use biodegradable things?
62. Give some example of biodegradable and non-biodegradable things?
63. What is electricity?
64. What is current?
65. What is voltage?
66. What is power?
67. What is unit of current?
68. What is unit of voltage?
69. What is unit of power?
70. How voltage and current are related?
71. What is the mathematical expression for the power?
72. What are different kinds of connections?
73. What is series connection?
74. What is parallel connection?
75. Which type of connection is preferred in this project?
76. What is instrument used to check the voltage?
77. What is electron?
78. How electrons are generated in this project?
79. Give out the chemical reaction where electrons are generated?
80. What is cathode reaction?
81. What is proton?
82. What is photon and from where we receive this photon?
83. How electrons are made to move in this system?
84. What is LED?
85. On what basis we select LED?
86. Does the project sasyojas any harmful effect to plants?
87. Is this project is possible to implement for different plant?
88. Dry or wet which kind of soil is good for this project?
89. What is manure and fertilizer?
90. What is difference between manure and fertilizer?
91. Do these term effects this project?
92. What all research carried out?
93. Show how output various from plant to plant?
94. What are the advantages of this project?
95. What is the main objective of the project?
96. Give out graphical representation of the output with respect to time?
97. How much electricity does produce by this prototype?
98. What is the future scope of this project?
99. What is Sustainable development?
100. Why we need sustainable development?

44. AYUSHMAT CUTLERY

1. What does the term “AYUSHMATH” mean?
2. From where is the term ‘Ayushmath’ derived from?
3. What components does the word ‘cutlery’ refer to?
4. What is the difference between cutlery and crockery?
5. How harmful is plastic to the environment?
6. What amount of plastic waste is produced every year in India?
7. What amount of plastic waste is produced in the form of cutlery every year?
8. What amount of plastic is reduced in the environment by edible cutlery?
9. What are different types of cutlery?
10. What are the different types of tests performed to ensure the strength of cutlery?
11. What is cutlery made up of?
12. What are the different uses of cutlery?
13. How Ayushmath cutlery is helpful in prevention of diseases?
14. How modern food habits and unhealthy lifestyle influence on human health?
15. What kind of food habit is good for health?
16. Can Ayushmath cutlery act as an alternate to junk food?
17. How many years do the plastic products take to decompose?
18. How long does the Ayushmath cutlery take to decompose in soil?
19. How are these spoons better than plastic or steel spoons?
20. To what category of plastic do the plastic cutlery belong to?
21. Why did we opt for this project?
22. What is the shelf life of these spoons?
23. What are the main ingredients used to make these spoons?
24. What is the melting temperature of the spoons?
25. What will be the cost of one spoon?
26. What is the duration to prepare a set of spoons?
27. What are the diseases these spoons target on?
28. What age group can eat these spoons?
29. What is the temperature used to make these spoons?
30. Under what pressure, will these spoons attain firm shape?
31. Will these spoons eradicate the disease?
32. How will these spoons build immunity?
33. What are the immunity building agents used?
34. What does immunity mean?
35. One advantage of Ayurveda medicine over English medicine.
36. One disadvantage of Ayurveda medicine over English medicine.
37. From where are the Ayurvedic ingredients used in the spoon extracted from?
38. How is this invention through the project new and useful?
39. What is the causative agent of Dengue?
40. What is the star ingredient in the spoon to help build immunity against Dengue?
41. List some of the ingredients in the spoon that are used to help build immunity against Dengue?
42. Apart from immunity, what are the precautions one has to take to fight against Dengue?
43. What are the symptoms of Dengue?
44. What is Cancer?
45. What are the Cancer immunization ingredients in the spoons?
46. How does Cancer start?
47. What are the stages of Cancer?
48. Is Cancer contagious?
49. Is Cancer genetic?

50. What are the key ingredients used in the spoons to build immunity against certain allergies?
51. Can allergies be cured?
52. What are the symptoms of cold and cough?
53. What are the allergies these spoons mainly focus on?
54. What can cause allergies?
55. What are the types of diabetes?
56. What is the star ingredient in the spoons to help build immunity against insulin?
57. Which type of diabetes does this spoon mainly focus on?
58. What causes diabetes?
59. What are the symptoms of diabetes?
60. What is acidity?
61. What causes inflammation in the stomach?
62. What are the ingredients in the spoon for immunization to acidity?
63. What is the key ingredient used in the spoon which can also be available in our kitchens to fight against acidity?
64. What are the other ways we can avoid acidity?
65. How much amount of protein content is present in Ayushmath cutlery?
66. How much amount of fat content is present in Ayushmath cutlery?
67. How much amount of minerals content is present in Ayushmath cutlery?
68. How much amount of fibres content is present in Ayushmath cutlery?
69. How much amount of iron content is present in Ayushmath cutlery?
70. How much amount of natural medicine content is present in Ayushmath cutlery?
71. What amount of energy content does the Ayushmath cutlery provide?
72. Are edible cutleries widely available in the market?
73. Who is the founder of edible cutlery in India?
74. How Ayushmath cutlery is useful for small scale business?
75. What is the equipment used to make Ayushmath cutlery?
76. Can Ayushmath cutlery be reused?
77. How is the role of Ayushmath cutlery in plant growth?
78. How Ayushmath cutlery is beneficial for better plant growth?
79. What essential components does Ayushmath cutlery provide for plants in soil?
80. What happens to the animals if they intake Ayushmath cutlery?
81. What happens to the animals if they intake plastic cutlery?
82. How harmful is plastic to the environment?
83. What amount of plastic is reduced by edible cutlery?
84. How Ayushmath cutlery is helpful in prevention of diseases?
85. How modern food habits and unhealthy lifestyle influence on human health?
86. What is the size of the spoon that we produce?
87. What ingredients does our Cancer medicated spoon consist of?
88. What ingredients does our Cold medicated spoon consist of?
89. What is the weight of one spoon?
90. How many varieties of cutlery can be fabricated?
91. Can infants consume these products?
92. Can it cure Cancer?
93. Does it have side effects?
94. How many days will it take while consuming, to show effects on the body?

95. How many days will it take to come to the market?
96. What will be the thickness of the spoon?
97. Will poor be able to afford these spoons?
98. Will the taste of the food be affected by the spoon's flavour?
99. Can these spoons be prepared in different flavours?
100. Can the spoons be fed to the dogs and cats?

45. COMPOSITE MATERIAL (GARMENT)

1. What is Composite Material?
2. What are the constituents of Composites?
3. What is Matrix?
4. Give the example of Matrix.
5. What is Reinforcement?
6. Give the example of Reinforcement.
7. What is the type of resin used to prepare the composite?
8. What is the composition of Epoxy Resin?
9. What is purpose of using epoxy resin in preparation of composite material?
10. What are the different categories of Textile waste?
11. What does trashy waste mean?
12. What is clean waste?
13. What do you mean by Hard waste?
14. Give examples for different categories of Textile waste.
15. Each year tons of Textile waste is converted into what?
16. What are the characteristic properties of Composite?
17. Give the example of Traditional Composite.
18. What is Metal Matrix Composite?
19. Why Composites are used?
20. What are the properties of Matrix?
21. How can we conclude that the given matrix is a good Matrix?
22. What are the properties of Reinforcement?
23. Advantages of Composite Materials over Conventional Materials.
24. Disadvantages of Composite Materials over Conventional Materials.
25. Role of Composite Material.
26. Requirements of Composite Material.
27. What is the contribution of **Haule L V** in recycling of cotton waste?
28. What is the contribution of **MohdIqbalMisnon** in recycling of cotton waste?
29. What is the contribution of **Petrucci.R** in recycling of cotton waste?
30. What is the contribution of **Kavitha S** in recycling of cotton waste?
31. How did you get the idea of utilization of Textile waste?
32. What are the objectives of the project?
33. What are the Materials used to prepare the composite Material?
34. What are epoxy resins?
35. What is the Viscosity of L-12 Epoxy Resin?
36. From where did you get L-12 Epoxy Resin?
37. Properties of L-12 Epoxy Resin.
38. What is hardener?
39. What kind of Hardener is used to prepare the composite Material?
40. What is the viscosity of Hardener?

41. What amount of Textile waste is converted into new Raw Material each year?
42. What is Fly ash?
43. Whether the Fly ash is Homogeneous or Heterogeneous material?
44. What you mean by homogeneous Material?
45. What you mean by Heterogeneous Material?
46. What is the composition of Fly ash?
47. From where did you collect the Fly ash?
48. Mention the steps involved in preparation of Composite.
49. What is the ASTM standard size of mould box used in the project?
50. Which Technique is used to achieve Reinforcement?
51. What you mean by Hand lay-up Technique?
52. What is the equipment is used to apply the composition?
53. What you mean by mould cavity?
54. Material of Mould box.
55. What is the procedure to Prepare the Composite Material?
56. What does the weight ratio mean?
57. What is the composition of A1 Specimen?
58. What is the composition of A2 Specimen?
59. What is the composition of A3 Specimen?
60. What is the composition of A4 Specimen?
61. The specimens were prepared according to which standards?
62. What are the tests conducted to ensure strength?
63. What is the size of Bending Test specimen?
64. What is the size of Compression Test specimen?
65. What is the size of Impact Test specimen?
66. What is the size of Water absorption Test specimen?
67. Which Test specimen is suitable for Ceiling tiles for interiors?
68. What is compression Strength?
69. What is Bending Strength?
70. What is Impact Strength?
71. What is Water absorption?
72. Which machine is used to conduct Compression test?
73. Which machine is used to conduct Bending test?
74. Which machine is used to conduct Impact test?
75. What is the viscosity of water?
76. What is the necessity to conduct all these tests?
77. What is the unit of Compression strength?
78. Which specimen is having higher compressive strength and how much it is?
79. What is the relation between compression strength and matrix?
80. Which specimen is having higher Bending strength and how much it is?
81. Which specimen is having higher Impact strength and how much it is?
82. Which specimen is having lower water absorption percentage and how much it is?
83. Advantages of Prepared composite material.
84. Disadvantages of Prepared composite material.

85. Applications of Prepared composite material.
86. What is the Scope of work?
87. What is the cost of 1kg (Resin Hardener)
88. cost of conventional tiles(1Sq.foot)
89. cost of prepared composite Tile(1Sq.foot)
90. Total Cost of the project.
91. What is the maximum compressive strength Observed for prepared Specimen?
92. What is the maximum Bending strength Observed for prepared Specimen?
93. What is the maximum Impact strength Observed for prepared Specimen?
94. What is Maximum and Minimum %of Water absorption of test specimen?
95. Which Specimen is best suited for indoor and outdoor applications?
96. What is the theme of the project?
97. Who is your Project guide?
98. What are the Fire retardants?
99. What is the Purpose of using Fly ash?
100. What do you mean by Fabrication?

46. GRAIN BAGGING MACHINE

1. What is grain?
2. How grains are classified?
3. What is different kind of grains?
4. What are 7 seven grain?
5. Which kind of grains is best suited for this project?
6. What is harvesting?
7. What are different methods of harvesting?
8. How grains are harvested?
9. In which month harvesting is done?
10. Why is harvesting important?
11. What is storage?
12. List out different method of grain storage.
13. List out the material used to store the grains?
14. What are the conditions required to store the grain?
15. What does the word silo means?
16. What are different types of silo?
17. What is silo storage?
18. Why silo storage?
19. How grains are stored after harvesting?
20. Why drying of the grain is required before storing it?
21. What are the different types of grain drying?
22. What traditional method of grain drying?
23. List out different method of traditional grain drying?
24. What is indirect method of grain drying?
25. List out different method of indirect grain drying?
26. Does traditional method take more time for drying the grain or indirect method?
27. Which method will be more convenient for the farmer?
28. Whether traditional method is more costly or indirect method?
29. What is the temperature required to dry the grain?
30. What is the advantage of drying the grains?
31. What is threshing?
32. What is the purpose of threshing?
33. How do you thresh grain?
34. What are different kinds of soil?
35. Which kind of soil is best suited for growing the Grains?
36. Why the type of soil must be seen before growing the grains?
37. What is grain collecting?
38. What are the different equipment present in the market for grain collecting?
39. What is the cost of this project and what is the cost of the collector present in the market?
40. Which is best to use by farmer?
41. Explain the step to make project complete?
42. What is designing?
43. Why do we design?
44. What all things must be taken in mind while designing any project?
45. Which software is used for designing of this product?
46. What is the unit used for giving dimension?

47. Do design help while doing project?
48. What is analysis?
49. Why design is analysed?
50. What all parameters can be measured by analysis?
51. Which software used for analysis?
52. The value giving by the software after analysing is same as of practical application?
53. What will be the result of doing analysis?
54. Which kind of material is used for this project?
55. Why only these materials are used?
56. What are the different parts of this project?
57. What is tray?
58. Why tray is needed?
59. What material is used for this tray?
60. What is the dimension of the tray?
61. How tray collect the grains?
62. What basic idea used behind for deigning of this tray?
63. Why the outlet area of the tray is smaller?
64. What is the use of reducing the outlet area?
65. How tray transfer collected grain into bag?
66. How tray is lifted?
67. How bags are hanged?
68. Which kind of the bag is used?
69. Why this bag is used?
70. Where hangers are attached?
71. What is the material is used for hanger?
72. Where bag is kept?
73. What is traveller?
74. What is the use of traveller?
75. What is the material used for traveller?
76. What is the dimension of the traveller?
77. How traveller is supported?
78. How traveller is moved?
79. What is the maximum load carried out by traveller?
80. How many bag can traveller carry out in a single time?
81. Does the whole process is automated or mechanical?
82. What is wheel?
83. Why wheels are used?
84. What is the material from which wheel is made off?
85. What is the dimension of this wheel?
86. Where these wheels are attached?
87. How this these wheels are attached?
88. What is the total weight of the project?
89. How much time it take to fill the bag?
90. How many times of lifting does fill a bag?
91. Show the analysed picture of the whole project?
92. Where load will act more?
93. What is the volume of the grain collecting bucket?
94. What is the total force required to move the equipment with or without bag?
95. What kind of material used for avoiding the equipment direct contact with the ground?
96. What is the advantage of this project?
97. What are the various application of this project?

98. Does this project is used somewhere for practical application?
99. What is to be developed?
100. What is the cost of this whole project?

47. RECORD AND PLAY ROBOTIC ARM

1. What are the components you are going to use in this project?
2. What are the hardware requirements of this project?
3. What are the software requirements of this project?
4. What is servo motor?
5. How servo is motor made?
6. What is the rotation angle of servo motor?
7. What is the type of servo motor used?
8. What is the torque of servo used?
9. What is micro controller?
10. What is the resistance?
11. What is the regulator used?
12. What is arduinouno?
13. On what chip arduinouno is based?
14. How many digital pins does it have?
15. How many analog pins does it have?
16. Why do we use arduinouno?
17. How many volts is required to drive the servo?
18. How many servos are used in this project?
19. Are these servos connected to digital pins or analog pins?
20. Which of the digital pins are assigned to the servo?
21. On what basis the servo motor operates?
22. How many pins SG90 has?
23. What does brown pin indicate?
24. What does yellow pin indicate?
25. What does red pin indicate?
26. What is current?
27. What is voltage?
28. What is mat lab?
29. How many colours have you assigned?
30. Why do we use mat lab only?
31. What are the advantages of this arm?
32. What are the dis advantages of this arm?
33. Where do we use these kinds of arms?
34. What is capacitor?
35. Can we use different colours other than the three used?
36. Can we program Arduino?
37. Are we programming Arduino here?
38. What is image processing?
39. Some applications of image processing?
40. Types of images?
41. What is rgb image?
42. What is greyscale image?
43. What is binary image?
44. Attributes used to indicted RGB colours?
45. What is the value read when the colour is red?
46. What is the value read when the colour is green?
47. What is the value read when the colour is blue?
48. By using three colours how many operations can we perform?
49. Is it a easy way of controlling the robot justify?
50. Does this robot have applications apart from pic and place?

51. Do we need to program this frequently?
52. What does mat lab indicates?
53. What are the three terminals n the house hold appliances socket indicate?
54. Why is the earth wire terminal thicker and longer than the other two terminals used?
55. What is a program?
56. How many operations are possible when all the three colours are combined?
57. Can you upgrade this arm?
58. What are the applications of image processing?
59. What is he future scope of the project?
60. How is the arm useful in agricultural sector?
61. How is the arm useful in industrial sector?
62. Can we use other programming language for this purpose?
63. Can we record the moments?
64. How you are going to record the movements and play?
65. How we are going to interface the arm with mat lab?
66. What's the total expense of the project?
67. What is the working principle?
68. How is the colour used to operate the arms?
69. To which port you are connecting the arduinouno?
70. Which version of Arduino is used?
71. How you are going to use it in agricultural field?
72. How did you get the idea of creating it?
73. Is it a new invention?
74. If you were asked to modify what would you modify?
75. Can we use the same technique in any other applications?
76. Can we detect the shape of the object using image processing?
77. For what the reset button is used in arduinouno?
78. What is the chip used in Arduino?
79. Is the colours shown to camera or any other sensors?
80. "Has many applications in the fast growing world", justify the statement
81. What is the operating voltage of arduinouno?
82. For what purpose the reset pin is used on the Arduino?
83. How manu power supply pins does Arduino have?
84. Why is ground pin used?
85. What is the degree of freedom of the servo robotic arm?
86. Which component is used to give constant voltage?
87. For what purpose the TX and Rx pins are used?
88. How do we program Arduino?
89. we program Arduino using embedded c?
90. What are tactile switches?
91. Do we have a inbuilt led in Arduino?
92. For what purpose digital pins are used?
93. For what purpose analog pins are used?
94. Why the motor driver shield is used to interface dc motors with arduino?
95. What is a signal?
96. What are gpio pins?
97. What is the advantages if Arduino over other micro controller?

98. Difference between microcontroller and microprocessor?
99. Is it compulsory to program Arduino if we want to use it?
100. How many colours or operations can we form with combination of all the three colours red, green, and blue?

48. GROW IT YOUR SELF

1. What is agriculture?
2. What are farming techniques traditionally used?
3. What is growth cycle for tomato in traditional soil farming?
4. What is aeroponics?
5. What is alternative name for aeroponics?
6. When was aeroponics discovered?
7. What is benefit of using aeroponics over other methods?
8. Is aeroponics better compared to other present farming methods?
9. Why aeroponics should be promoted over other methods?
10. What is vertical farming?
11. What are benefits of vertical farming over traditional farming?
12. What is an automizer?
13. What is mist/fog?
14. How is chlorophyll produced?
15. How do plants get water & nutrients through it?
16. What is the action due to which water from ground level to root is delivered?
17. What is cocopeat?
18. What is the procedure to make cocopeat own your own?
19. What is alternative to cocopeat?
20. What is Ph?
21. How is ph. measured?
22. What is acidic on ph. scale denote?
23. What does alkaline/basic on ph. scale denote?
24. What is 7 on ph. scale?
25. What is temperature?
26. What is formula for conversion of degree to celcius?
27. What is formula for conversion of celcius to degree?
28. What is humidity?
29. What are other names for automizer?
30. What are herbs?
31. What are shrubs?
32. What are creepers?
33. What is difference between legumes & nonlegums plants?
34. What is basic requirement for crops to grow in soil agriculture?
35. What is basic requirement for crops to grow in soil-less agriculture?
36. Why one should adopt soilless farming method instead of traditional way?
37. Is aeroponics system cheaper?
38. What problems are faced in soil farming?
39. What problems are faced in aeroponics farming?
40. Does aeroponics system can be installed in home?
41. What are merits of aeroponics farming?
42. What are the demerits of aeroponics farming?
43. Can aeroponic system an be created at home?
44. Is the developed model easy to use/operate?
45. What is ld.?
46. On which principle does ld. works?

47. What does LCD stands for?
48. Why LCD is used in this project?
49. What is adapter?
50. Is adapter & adopter same?
51. What is Arduino?
52. What is microcontroller?
53. What are basic building blocks of microcontroller?
54. What is microprocessor?
55. Is Arduino a microcontroller or microprocessor board?
56. What is the IC on which Arduino mega2560 board is built?
57. Which Arduino board is used to build this project?
58. What is PCB?
59. What is resistor?
60. What is capacitor?
61. What is inductor?
62. What is an analog signal?
63. What is a digital signal?
64. What is pwm?
65. Why pwm pins are present on Arduino?
66. Is analog better or digital?
67. Does analog or digital provide better accuracy?
68. What are two standard voltage levels present on Arduino board?
69. What is oscillator?
70. What is one oscillation denotes?
71. What is unit to measure oscillations?
72. What is crystal oscillator?
73. What language does Arduino use for coding?
74. Which software is used to write Arduino code?
75. What does ide stands for in Arduino ide?
76. Why reset button is present on Arduino board?
77. What is serial monitor?
78. Why upload tab is present on Arduino ide?
79. What is memory?
80. What are interrupts?
81. What does led stand for?
82. What is led and how it works?
83. Why verify tab is present on Arduino ide?
84. What is baud rate?
85. What is unit of ph.?
86. What is work of adapter?
87. What is an active device?
88. What is a passive device?
89. Is ldr active or passive device?
90. What is potentiometer?
91. What is potentiometer also known as?
92. What does ohm's law state?
93. What type of display is used for this project?
94. What does tft stands for?
95. Is dht11 sensor waterproof?
96. How many pin is dht11 sensor is?
97. Who invented Arduino?
98. How many leds can be powered using Arduino?
99. How do you clean areoponics system?

100. What are major crops grown in aeroponis farming?'
101. What are types of aeroponics farming?
102. Is aeroponics better than hydroponics?
103. How does an aeroponic system work?
104. What is physiological disorder caused in this system?
105. Why is aeroponics used in NASA?
106. What is status of aeroponics method in India?
107. What software is used to design outer box?
108. How is nutrient solution entered into solution chamber?
109. What is pmdc?
110. What is relay?
111. Why relays are used in this project?
112. How this system should be cleaned?
113. Which type of leds are used?
114. What is wavelength of red led?
115. What is wavelength of blue led?
116. Why only red & blue leds are used?
117. Who discovered aeroponics?
118. Is Arduino better or raspberry pi?
119. Does dth sensor needs resistor?
120. What is thermistor?
121. What is thermistor known as?
122. What is material used to make the box?
123. What is working of pmdc?
124. Which motors are best to use brushed or brushless?
125. What software is used to make PCB?

49. INTELLIGENT HELMENTS

1. On what base you have designed this helmet project?
2. Which all components are used in this model?
3. What is Arduino Uno?
4. How many Arduino Uno you have used?
5. What is the difference between Arduino and microprocessor?
6. What is imu?
7. Why you have used imu sensor?
8. What is the range of sonar sensor, how it will work?
9. How you detect the rash driving?
10. What will happen if a person drunk and riding the bike?
11. What is gps?
12. What is gsm?
13. What is the threshold level of alcohol sensor?
14. Which language is used in this project?
15. How much voltage is requiring for this model?
16. What stands for LCD?
17. How it will be detected if rider jumps the red signal?
18. What is rfid?
19. How the penalty will be deduct from the user account?
20. On what base you have created dummy website?
21. If any accident is occurred then how the family members and cops will get to know?
22. What is the weight of this helmet?
23. What is the future advantage of this project?
24. How the helmet is connected to the bike?
25. Which software you have used in this project?
26. What is Arduino ide?
27. What is the cost of this helmet?
28. What is relay? How it will work?
29. How rfid helps in determination of signal violation?
30. What are the future modifications of this project?
31. What is the use of helmet?
32. What are the road signals?
33. What indicates the red signal?
34. What indicates the yellow signal?
35. What indicates the green signal?
36. How this helmet is useful to follow the rules?
37. What if the rider does not wear the helmet?
38. What is the use of LCD display?
39. Why we have used LCD display?
40. What is cost of alcohol sensor?
41. Which imu sensor you have used here?
42. Which alcohol sensor is used here?
43. How you created the user panel?
44. What is control panel?
45. How do you created admin panel?
46. What is the price of sonar sensor?
47. What is the software's used in this project?
48. Why did you use Arduino Uno?
49. What is buzzer?
50. How the buzzer will helpful to this project?
51. How can you reduce the weight of helmet?

52. What is serial monitor?
53. What is u centre?
54. What is c language?
55. What is the working of imu sensor?
56. What is the working of rfid modem?
57. How do you insert the sim card in the modem?
58. What is resister?
59. How much power supply do you want to start the system?
60. What is voltage divider?
61. What is the working of voltage divider?
62. Why did you used push button?
63. What is the range of breath sensor?
64. What is Arduino Nano?
65. Why you have used the Arduino Nano?
66. What is the cost of LCD display?
67. What is the sensor?
68. Why did you use sensor?
69. What is the purpose of project?
70. Distinguish between the Arduino and processor?
71. What is the processor?
72. How the Arduino overcome to processor?
73. What is the benefit of our project?
74. What are the applications of this project?
75. What are the radio waves?
76. Why did you use rfid?
77. What is the breath sensor?
78. What kinds of Arduinos are there?
79. What is the modem?
80. What are the difference between modem and sensor?
81. Why we have used push button?
82. What is the hardware used here?
83. What is the ignition relay?
84. What are the advantages of our project?
85. What is orientation sensor?
86. What is vibration motor?
87. What are the main software used here?
88. What is principle of this project?
89. Who controls the function of relay and ignition?
90. What are the keywords of this project?
91. Explain the working of gsm?
92. Explain the working of gps?
93. How do you modify this project?
94. How can be the penalty deducted?
95. What type of alcohol sensor used here?
96. What is the range of rfid sensor?
97. How do you created the websites?
98. What are the objectives of this project?
99. Explain any two reference of this project?
100. What is the conclusion of this project?

50. PINICA TOOTH PRODUCTS

1. What is the name of your project?
2. Why you have chosen pomegranate peel?
3. What pomegranate peel contains?
4. How will u prove it as an antibacterial activity?
5. Will the industry people give their peel waste to process it?
6. Why you are using spray drier?
7. Why can't sunlight been used to dry the pomegranate
8. How much quantities of chemicals you have used
9. Use of each chemical in the process
10. Use of precipated chalk
11. Use of colloidal clay in the process
12. Use of Tragacanth mucilage
13. Use of glucose in the process
14. Use of glycerine in the process
15. Use of methyl paraben in the experiment
16. Use of peppermint oil in the process
17. What are the components which are required to maintain good oral health?
18. What is the use of antioxidants in mouth?
19. How does pomegranate acts as antioxidant
20. Is our project cost effective
21. What are the drawbacks of the present tooth products?
22. What is the harmful chemical does the present tooth products have
23. Does our product maintain the ph. of the mouth?
24. If yes, How?
25. What is the activity of the each component in the pomegranate peel?
26. What is the melting and boiling point of each component?
27. At which condition the activity of component is more
28. What is the aim of your project?
29. How does it help for the society?
30. How much quantity of paste you have prepared
31. What is the amount of the peel powder used in the experiment?
32. Is it necessary to add the chemicals along with the powder?
33. Is it economical?
34. What is the reaction between each of the component?
35. What is the function of the precipited chalk?
36. What is the function of the colloidal clay?
37. What is the function of the Tragacanth mucilage?
38. What is the function of the glucose?
39. What is the function of the glycerin?
40. What is the function of the Methyl paraben?
41. What is the function of the peppermint oil?
42. What the pomegranate peel contains?
43. What do the flavonoids do?
44. What is the function of the elagatannins?
45. How do flavonoids act as antioxidants?
46. How does its works as anti-inflammatory agents?
47. How does it benefit to the human body?

48. How you purified the pomegranate peel powder
49. How you measured the each chemical?
50. What is the innovative in this project?
51. Explain with the example of how we can use this pomegranate peel
52. Uses of the pomegranate peel
53. What is the procedure of the process used?
54. What are the testes you have done on this product?
55. What are the comparative studies done on this tooth paste?
56. In what medium the test is been done?
57. Duration of the test done
58. Which standard tooth paste is been used
59. What is the result of the bacterial growth I the standard tooth paste?
60. What is the growth of bacteria in the pomegranate tooth paste?
61. What is the result of each of the plates?
62. Comparative of standard plate to pomegranate tooth paste.
63. What is the result of the comparative plates?
64. Have you tried the tooth paste?
65. Have you tested on the patients?
66. What is the effect of the tooth paste on patients?
67. What are the results of the patients?
68. What is the duration to check on the patients?
69. There are any side effects formed to the patients?
70. What is the reaction of the patients before using the toothpaste?
71. What is the reaction of the patients after using the toothpaste?
72. What is the difference formed in the tooth
73. Is there any alternate way to use the paste?
74. What is the quantity of precipitated chalk in the process?
75. What is the quantity of colloidal clay in the experiment?
76. What is the quantity of Tragacanth mucilage?
77. What is the quantity of glucose used?
78. What is the quantity of glycerine used?
79. What is the quantity of methyl paraben used?
80. What is the quantity of peppermint oil?
81. What is the quantity of peel powder used?
82. What is the quantity of water used?
83. Steps involved in process formation
84. Where do we get the raw materials?
85. How much peel is to be used.
86. At what temperature peel is to be dried.
87. At what rate the powder is to be done
88. What is the thickness of the peel powder used?
89. What is the first step in the process?
90. At what rate the result is been formed
91. What are the Benefits of the formed toothpaste?
92. What are the drawbacks in the formed toothpaste?
93. What is the scope of the pomegranate tooth paste?
94. What are the marketing plans of the products?

95. What is the acceptance rate in the society?
96. Is it economical?
97. Is it beneficial to the society?
98. Will the people accept it?
99. How you will convince the people to buy your product?
100. What is the overall summary of your project?

51. Development of Automatic sorting machine for municipal solid waste

1. What is Anveshana event?
2. When is Anveshana event?
3. What are the objectives of Anveshana?
4. How projects are selected for Anveshana?
5. What we will do in Anveshana event?
6. What is the aim of this project?
7. What is the importance of this project?
8. What is the basic requirement for this project?
9. What is the advantage of this project?
10. What made us to build this project?
11. How this project is beneficial for consumers?
12. Where this project can be used?
13. What is the necessity of this project?
14. What is the cost of this project?
15. Explain the working of this project?
16. Can this project can be done in large scale?
17. Where did you get the idea from?
18. Is this model already exists?
19. What is compost?
20. What is kitchen waste?
21. What is municipal solid waste?
22. What is waste management?
23. What are the major problems encountered for proper waste management?
24. How Do I Dispose My Waste?
25. What are organic and inorganic wastes?
26. What is biodegradable and non-biodegradable waste?
27. What are the types of wastes generated?
28. What is the types waste that can be loaded?
29. Is some part of the waste used for recycling?
30. What is the composite material?
31. What causes pollution?
32. Which are the industries producing waste?
33. Where all the waste will generate?
34. Explain Indian Labour Market?
35. What Is Safety?
36. What Is Hazard?
37. What Is Pollution Control?
38. What Are the Major Causes of Pollution?
39. What are household hazardous wastes? How can I recycle them?
40. What is recycling?
41. Can I recycle materials with food residue or does the material have to be perfectly clean?
42. Can I recycle plastic bags and wrap/film?
43. What is composting? Is it truly beneficial for the environment? How do I do it?
44. What are the most common items that I can put into my recycling bin?
45. Is recycling the best management option? What other options are there?
46. How does recycling save energy?
47. Is recycling truly beneficial for the environment?
48. What are the different types of waste?
49. What Are Ways of Storing the Waste at Homes?
50. What is waste management?

51. Compost your wet waste at home, Compost your wet waste at the community level
52. What is waste management?
53. What are the rules and regulations guiding waste management in India?
54. What are the common methods of waste disposal?
55. What is aerobic composting? What is anaerobic composting?
56. What is incineration?
57. What is a sanitary landfill?
58. Is this system eco-friendly?
59. For what reason you select this project?
60. Is this project innovative?
61. What are the drawbacks of this system?
62. What is the use of our project to the society?
63. What type of mechanisms is used in this system?
64. What is a linking mechanism?
65. What is the use of linking mechanisms?
66. What is the use of shaft?
67. On which principle this system works?
68. Is this system portable?
69. How does this system work?
70. What are parts it involves?
71. Is the machine user friendly?
72. What is fabrication?
73. What components do this system consists?
74. What is drum?
75. Which material is used for the drum?
76. What is frame?
77. Which material is used to manufacture a shaft?
78. How different components of a machine are joined?
79. How do I practice waste management at home?
80. Define Machine.
81. Define kinetics. Define Kinematic Link.
82. What is a motor?
83. What are the types of the motor?
84. On which principle does the geared motor works?
85. Which motor is used in automated Sorting Machine?
86. Why geared motor is used?
87. How motor is connected to shaft?
88. What is the rpm of geared motor?
89. Define density?
90. What is sorting (segregations) means?
91. What is automatic?
92. What is welding?
93. For what purpose welding is used?
94. What are the different types of welding?
95. What is bearing? Why do we need bearing?
96. What is coupling? What is shaft?
97. What is gear mechanism?
98. What are the different types of gear?
99. What is Start-up INDIA?
100. Can we Start-up with this machine in largescale?