AGASTYA INTERNATIONAL FOUNDATION
SUPPORTED BY R. JHUNJHUNWALA FOUNDATION & OTHERS

In Partnership with

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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

Conducted Virtually Between 8th-15th March'21

Organised by Agastya International Foundation

In support with Synopsys

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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, 2 years in Mumbai, and 5 years in NCR 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 2020-21 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

PROJECT EXHIBITED IN THE FAIR			
S.N.	**PROJECT CODE**	**PROJECT NAME**	**COLLEGE NAME/SCHOOL NAME**
1	AS-D-G-01	AUTO FIRE EXTINGUISHING SUIT	Bharati Vidyapeeth's College of Engineering, Delhi
			Govt. Co-ed Sarvodaya Vidyalaya, Rampura, Delhi
2	AS-D-G-02	Warm Patient Mattress	Poornima College of Engineering, Sitapura, Jaipur
			Govt. Senior Secondary School, Sanganer, Jaipur
3	AS-D-G-03	The Braille Cell	Maharaja Agrasen Institute of Technology, Rohini, Delhi
			Govt. Sarvodaya Kanya Vidyalaya, Nangloi, Delhi
4	AS-D-G-04	Electricity from sludge	GL Bajaj Institute of Technology and Management, Greater Noida
			Govt. Girls Sr. Sec. School, Paharganj, New Delhi
5	AS-D-G-05	DELHI DUKAAN - VOCAL FOR LOCAL	Bharati Vidyapeeth's College of Engineering, Delhi
			Govt. Sarvodaya Co-ed Vidyalaya, Sec-8, Rohini, Delhi
6	AS-D-G-06	Smart Medicine Box	JSS Academy of Technical Education, Noida
			Rajkiya Balika Inter College, Sector 51, Noida,
7	AS-D-G-07	SELF Balanced Electric Two Wheeler	Dronacharya Group of Institution, Greater Noida
			Govt. Sarvodaya Co-ed Vidyalaya, Sec-8, Rohini, Delhi
8	AS-D-G-08	waste paper recycling machine	Dronacharya Group of Institution, Greater Noida
			Govt. Sarvodaya Co-ed Vidyalaya, Sec-8, Rohini, Delhi
9	AS-D-G-09	Recoil Reducing Pressure Device	Dronacharya Group of Institution, Greater Noida
			Model Upper Primary School, Dhanipur, Aligarh
10	AS-D-G-10	MT bot	Hi-Tech Institute of Engineering & Technology, Ghaziabad
			Ramanujan Sarvodaya Kanya Vidyalaya Mehrauli
			Govt. Girls Sr. Sec. School No-3, Dr Ambedkar Nagar

11	AS-D-G-11	VERTICAL AXIS WIND TURBINE	GL Bajaj Institute of Technology and Management, Greater Noida
			Sarvodaya Kanya Vidyalaya, No.1 School, Uttam Nagar, West B, Delhi
			Govt. Girls Senior Secondary School, Nangloi, Delhi
12	AS-D-G-12	Atmospheric Water Generator	Bharati Vidyapeeth's College of Engineering, Delhi
			Govt. Co-ed Sarvodaya Vidyalaya, Rampura, Delhi
13	AS-D-G-13	Ultraviolet Sterilizer	GL Bajaj Institute of Technology and Management, Greater Noida
			Rajkiya Pratibha Vikas Vidyalaya, A-6, Paschim Vihar, Delhi
14	AS-D-G-14	Solid Waste Management	Ajay Kumar Garg Engineering College, Ghaziabad
			Govt. Girls Senior Secondary School, Nithari Village, Delhi
15	AS-D-G-15	Water Conserving Faucet	Bharati Vidyapeeth's College of Engineering, Delhi
			Govt. Sarvodaya Co-ed Sr. Sec. School, Hiran Kudna
16	AS-D-G-16	Tracking Water Usage at Home	Ajay Kumar Garg Engineering College, Ghaziabad
			Govt. Girls Senior Secondary School, Nithari Village, Delhi
17	AS-D-G-17	Real-Time Face Mask Detector	Ajay Kumar Garg Engineering College, Ghaziabad
			Government Girls Sr Sec. School, Mubarakpur Dabas, Delhi
18	AS-D-G-18	mask and thermal sensitive door	Dronacharya Group of Institution, Greater Noida
			Rajkiya Sarvodaya Bal Vidyalaya, No-2, Shakarpur, Delhi
19	AS-D-G-19	ARANYANI	Bharati Vidyapeeth's College of Engineering, Delhi
			Govt. Girls Senior Secondary School, Nangloi, Delhi
			Government Girls Senior Secondary School, Hastsal, Delhi
20	AS-D-G-20	Waste Collector and Recycling	Sagar Institute of Science and Technology, Gandhi Nagar, Bhopal
			Govt. Naveen Girls H. S. School, Tulsi Nagar, Bhopal
21	AS-D-G-21	limitation on person entry	GL Bajaj Institute of Technology and Management, Greater Noida
			Sarvodaya Kanya Vidyalaya, Arambagh Lane, Delhi

22	AS-D-G-22	HLED	Bharati Vidyapeeth's College of Engineering, Delhi
			Govt. Sarvodaya Co-ed Vidyalaya, Sec-8, Rohini, Delhi
23	AS-D-G-23	Musical Hydroponics	GD Goenka University, Gurugram
			Govt. Model Sanskritl Sr. Sec. School, Sushantlok, Gurugram
24	AS-D-G-24	Modish Litter Basket	Sharda University, Greater Noida
			Aligarh Muslim University, Aligarh
			Ramanujan Sarvodaya Kanya Vidyalaya Mehrauli, Delhi
25	AS-D-G-25	Forest-Desert Land Segregation	JSS Academy of Technical Education, Noida
			Rajkiya Balika Inter College, Sector 51, Noida,
26	AS-D-G-26	Portable EEG Machine	Maharaja Agrasen Institute of Technology, Rohini, Delhi
			Govt. Girls Senior Secondary School, Nangloi, Delhi
			Govt. Sarvodaya Co-ed Vidyalaya, New Multan Nagar, Delhi
27	AS-D-G-27	FOREST ANALYSIS USING GIS	Ajay Kumar Garg Engineering College, Ghaziabad
			Jaypee Institute of Information Technology, Noida
			Rajkiya Sarvodaya Bal Vidyalaya, No-2, Shakarpur, Delhi
			Rajkiya Srvodaya Bal Vidyalaya, Laxmi Nagar, Delhi
28	AS-D-G-28	Bookhub	Sagar Institute of Research and Technology, Bhopal
			Govt. Adarsh Residential Girls Institute for Sanskrit, Bhopal
29	AS-D-G-29	ORIPANEL	Indraprastha Engineering College, Shahibabad, UP
			S.S.L.T Gujarat Sr. Sec. School, Raj Niwas Marg, Delhi
30	AS-D-G-30	HYDROGEN FUEL	GD Goenka University, Gurugram
			Govt. Girls Senior Secondary School, Ghamroj
31	AS-D-G-31	Smart hacker	Sagar Institute of Research and Technology, Bhopal
			Govt. Adarsh Residential Girls Institute for Sanskrit, Bhopal
			Govt. Naveen Girls H. S. School, Tulsi Nagar, Bhopal

32	AS-D-G-32	Solar power forest fire detector	Poornima College of Engineering, Sitapura, Jaipur
			Govt. Senior Secondary School, Sanganer, Jaipur
33	AS-D-G-33	Smart cyber rampart system	Sagar Institute of Research and Technology, Bhopal
			Govt. Adarsh Residential Girls Institute for Sanskrit, Bhopal
34	AS-D-G-34	Open Source Ventilator Project	Global Institute of Technology, Jaipur
			Govt. Senior Secondary School, Sukhupriya, Jaipur
35	AS-D-G-35	Conversion of CO-2 into Electricity	Global Institute of Technology, Jaipur
			Govt. Senior Secondary School, Gator, Jaipur
36	AS-D-G-36	Wear Smart Safety	Sagar Institute of Research and Technology, Bhopal
			Govt. Higher Secondary School, Anand Nagar, Bhopal
			Mahatma Gandhi Higher Sec. School, Barkheda, Bhopal
37	AS-D-G-37	VeSaFe	Sagar Institute of Research and Technology, Bhopal
			Govt. Naveen Girls H. S. School, Tulsi Nagar, Bhopal
38	AS-D-G-38	AIR FILTER SYSTEM	Sagar Institute of Science and Technology, Gandhi Nagar, Bhopal
			Govt. Naveen Girls H. S. School, Tulsi Nagar, Bhopal
			Govt. High School, Chunabhatti, Bhopal
39	AS-D-G-39	Power Outage Info module	Panipat Institute of Engineering and Technology, Panipat
			Govt. Sarvodaya Kanya Vidyalaya, Jwalapuri, Amalwas, Delhi
40	AS-D-G-40	Plastic Constraint by Plastics	Maharaja Agrasen Institute of Technology, Rohini, Delhi
			Govt. Girls Senior Secondary School, Nangloi, Delhi
			Govt. Girls Sr. Sec. School, Baprola, New Delhi

1. AUTO FIRE EXTINGUISHING SUIT

1. What is energy?
2. How many types of energies are there?
3. What is Kinetic Energy?
4. What is Potential Energy?
5. What is an atom?
6. Is atom made up of anything?
7. What are electrons?
8. What are protons?
9. What are neutrons?
10. Is atom similar to a solar system?
11. What is the use of neutron in an atom?
12. What are charges?
13. How is charge measured?
14. How many types of charges are there?
15. Which charges attract and which charges repel?
16. Why do charges attract and repel each other?
17. What is electrostatic force?
18. On what factors does electrostatic force depend upon?
19. What if we replace electrons with protons?
20. What is electricity?
21. How was electricity discovered?
22. What is static electricity?
23. How is electricity produced?
24. What is a battery? What does voltage reading on a battery mean?
25. What is electrical energy?
26. What are the types of batteries?
27. What is current?
28. How is current measured?
29. What does 1 Ampere of current mean?
30. If everything has electrons, why don't we feel shock every time we touch something?
31. What is voltage?
32. How is voltage measured?
33. What does 1 Volt mean?
34. Is there a difference between current and voltage?
35. Why is the direction of current opposite to the flow of electrons?
36. Can electricity be produced by protons too?
37. How much voltage is harmful for us?
38. How much current is harmful for us?
39. Do all materials conduct electricity?
40. Why is copper used in wires generally?
41. What are conductors?
42. What are insulators?
43. What is resistance?
44. What is series connection?
45. What is parallel connection?
46. What other things can electricity do other than giving shock?
47. What are magnets?
48. Does magnet attract all metals?
49. Do magnets ever lose their properties?
50. If we cut magnet in half, what will happen?
51. What is magnetic field?

52. What is magnetic conductor?
53. How does electricity generate magnetic field?
54. What is solenoid?
55. Why do we make turns in the wire and not use a straight wire for making solenoid?
56. What is helical path?
57. What does this magnetic field depend upon?
58. What is an electromagnet?
59. Why electromagnet is called a temporary magnet?
60. Does electromagnet lose its property immediately or does it take some time?
61. What are the causes of fire?
62. How are fires blown out?
63. How does a fire extinguisher work?
64. What is the role of CO_2 in extinguishing fires?
65. How many types of fire extinguisher are there?
66. Why do chemicals react?
67. What are ions?
68. What is the difference between atoms and molecules?
69. What is atomic number?
70. What is the maximum number of orbits an atom can have?
71. What is the minimum number of orbits an atom can have?
72. Do atoms have mass?
73. Why do atoms bond?
74. How do atoms bond?
75. What is an ionic bond?
76. What is valence?
77. How does carbon bond?
78. What is covalent bond?
79. Why do firemen wear Nomex Jacket?
80. What are polymers and how are they formed?
81. What are hydrocarbons?
82. Why are we using Zinc wire?
83. What is melting point?
84. What is melting point of Zinc?
85. Why is foam type extinguisher inverted before use?
86. What is the reaction involved in a foam type extinguisher?
87. What do aluminum sulphate and sodium bicarbonate form on reacting with each other?
88. What is the formula of the foam produced in a foam type extinguisher?
89. Why are we using foam type extinguisher for our project?
90. What are the benefits of our project?
91. How is our project cost effective?
92. Will the firemen feel an electric shock when wearing our jacket?
93. Why do firemen wear waterproof boots?
94. What is need of insulated case for the battery?
95. What is the use of clip before electromagnet is switched ON?
96. What material will be used to make pipes of channeling system?
97. Will the Sodium Carbonate be concentrated or diluted?

98. What will be the physical state of chemicals used?
99. Why are we automating this traditional fire extinguisher?
100. How is our fire extinguisher better than the traditionally used fire extinguisher?

2. WARM PATIENT MATTRESS

1. What is carbon fiber heating element?
2. What is heating element?
3. Explain the application of carbon fiber heating element?
4. What is sensor?
5. Explain about the types of sensor?
6. What is the general specification of carbon fiber heating element?
7. What is the price of carbon fiber heating element?
8. Name of the source where are you buying the carbon fiber heating element?
9. Explain all property of carbon fiber heating element?
10. Explain about the conductor?
11. What is the aim of the project?
12. How is the model innovative?
13. How is the new model better than compare to exist such type of model?
14. What is the future application of your project?
15. What is the rate of your project?
16. What is the name of your component which is used in your project?
17. How is the model cost effective?
18. How is the model more efficient?
19. How long is the life of your project?
20. How is your project suitable for patient and hospital?

21. How can he be doing work After getting sufficient temperature which are you given in LCD?
22. Is it controlled or not by a doctor or hospital staff sitting a room?
23. This is suitable or not for every type of mattress?
24. Is it shockproof or not?
25. Is it fire proof or not because in short circuit cases mattress catches the fire?
26. Can be replacing the carbon fiber heating element to other material for a simple presentation?
27. What is the current rating of carbon fiber heating element?
28. Explain about the conductivity?
29. What is the meaning of resistivity?
30. What is the meaning of insulator?
31. What is the means of semiconductor?
32. What is the current?
33. Name of the factor which playing important role to flow current through material?
34. What is the electric charge and mass of electron?
35. Name of the sensor which is used in your project.
36. Explain all about the temperature sensor.
37. Explain the working principle of temperature sensor.
38. Temperature sensor is digital or analog sensor.
39. Name of the model of temperature sensor.
40. Explain the temperature sensor pin configuration.
41. How do we check the temperature of temperature sensor?
42. Explain the application of temperature sensor.
43. What is the unit of temperature?
44. What is the room temperature?
45. What is the body temperature of human being?
46. What is role of the temperature sensor in your project?
47. What is the cost of temperature sensor?
48. What is the full form of LCD?
49. What is the price of LCD in the market?
50. Which model of LCD in your project?
51. What is the role of LCD in your project?
52. How much voltage required operating LCD?
53. How an LCD works.
54. Explain the application of LCD.
55. What is the operating temperature of LCD?
56. What is the working principle of LCD?
57. What is the material which is used to making the LCD?
58. What is grounding?
59. What is series and parallel connection which is used to join the component?
60. What is the programming?
61. Which programming used to make the code
62. Name of the platform which is used to do programming.

63. What is microcontroller?
64. What is microprocessor?
65. Difference between microcontroller and microcomputer.
66. Name of the microcontroller which is used in "ARDUINO".
67. How many microcontroller does exist in" ARDUINO"?
68. How many pins exist in ATMEGA328P microcontroller?
69. What is the role of ATMEGA328P microcontroller?
70. What is the price of "ARDUINO"?
71. Which version of "ARDUIO" used in your project.
72. Is the" ARDUINO" based on C or C++ language?
73. Explain the type of "ARDUINO".
74. What is the full form of "ICSP"?
75. What is the role of power pins?
76. How many power pins available in Arduino?
77. What is the role of analog pins?
78. How many analog pins available in "ARDUINO"?
79. What is the role of digital pins?
80. How many digital pins available in "ARDUINO"?
81. What is the full form of PWM?
82. Which pins works as PWM?
83. Which pin is used as TX and RX pins?
84. What is the roll of TX and RX pins?
85. What is the role of POWER USB in "ARDUINO"?
86. What is the role of voltage regulator in "ARDUINO"?
87. How many pins which works as Grounding.
88. How can we upload the program in the microcontroller?
89. Which DIGITAL pin used to connect LCD?
90. Which pin of ARDUINO "used to external power supply?
91. How many operating voltage required for the "ARDUINO".
92. What is the role of" RESET BUTTON"?
93. Name of the software of ARDUINO which is used for compile and check the error.
94. How do you check "ARDUINO "is damage or not?
95. What is the advantage of your project for society?
96. What is the price of your overall project?
97. Can we give the supply of "ARDUINO" through smart-phone or laptop?
98. Is it suitable or not for every weather?
99. Explain the overall working of your project.
100. Give the example of such product which is similar to your project.

3. THE BRAILLE CELL

1. What is the braille language?
2. How many types of braille language are there?
3. What is Grade 1 Braille?
4. What is Grade 2 Braille?
5. Which type of braille language is more prevalent in India?
6. What are the data points regarding visually impaired people?
7. What is the number of individuals who are visually impaired but literate?
8. What is the impact of these data points on the economy?
9. What is the scenario regarding Braille literacy?
10. Define Non-Readers, Auditory Readers, Pre-Readers, Print Readers, Braille Readers.
11. What are the various efforts put forth for education of the visually impaired?
12. What is the JAWS Software?
13. What is the issue(s) with the JAWS Software?
14. Is the current infrastructure possessing any actual utility?
15. What issues are present with the existing infrastructure regarding education of blind people?
16. Describe the effect of COVID-19 pandemic on the education of visually-impaired students?
17. How has 'Online Education' played havoc in the visually disabled students' lives?
18. Explain the Digital Divide.
19. What is the Braille Cell?
20. What are the core objectives of our device?
21. What is the prerequisite for using our device?
22. How our product (The Braille Cell) is different from other educational tools?
23. Give a brief description of the technology used in the Braille Cell.
24. How is our product so affordable?
25. What are the intended applications of our product?
26. How can visually-impaired students read E-books using this device?
27. What all other applications can the visually impaired students use through this device?
28. How does our device integrate into the existing infrastructure?
29. What is the costing of the device at present?
30. What is the scope of future improvements on the device?
31. How will the end user be empowered through this device?
32. Briefly describe the long-term strategy for the marketing of this device?
33. What is the future trajectory for commercial rollout?
34. Which organizations are we hoping to get aid from?
35. What will be the role of NGOs in ensuring the distributorship of this device?
36. Which of the Government policies are related to this device?

37. What is Digital India?
38. How can Digital India be realized through our project?
39. What is Atmanirbhar Bharat?
40. How can Atmanirbhar Bharat be realized through our project?
41. What is Make in India?
42. How can Make in India be realized through our project?
43. What are the Sustainable Development Goals set up by the United Nations?
44. Which of the Sustainable Development goals are aligned to our project?
45. What is Goal No.4? Explain.
46. How is Goal No.4 realized through our project?
47. What is Goal No.9? Explain.
48. How is Goal No. 9 realized through our project?
49. What is Goal No.10? Explain.
50. How is Goal No.10 realized through our project?
51. What is Arduino?
52. Why should we use Arduino?
53. In which language Arduino software is written?
54. What is software?
55. Where do we program the Arduino?
56. What is the power source for the Arduino?
57. What is the output of Arduino?
58. How can we supply power to the Arduino?
59. What is the alternating current?
60. What is direct current?
61. What is a resistor?
62. What is a vibrating motor?
63. What is the servo motor?
64. What is the hardware?
65. What is the breadboard?
66. What is the purpose of using a servo motor?
67. What is the need of a vibrating motor?
68. What is the value of the resistors that we used in this project?
69. Why did we use NPN transistor?
70. How do we control the servo motor?
71. What is the input voltage required by the different components?
72. Why don't we give power to the motor through Arduino?
73. What is the solenoid actuator?
74. Why did we use a servo motor instead of solenoid actuator?
75. What is live wire?
76. What is the neutral wire?
77. What is the name of the online platform that we use to create circuit diagram and simulation of the project?
78. What are the advantages of servo motor over solenoid actuator?
79. Currently, how many things can we represent on our braille project?
80. Which microcontroller we use in our project?
81. Where does the output represent?
82. Where does the processing take place?
83. How can we provide input?
84. What is the IR sensor?
85. What is the IR transmitter?

86. What is the IR receiver?
87. How can the IR sensor be more useful than the Wi-Fi module?
88. What is the braille cell?
89. How can the vibrating motor help us to distinguish between numbers and alphabet?
90. What is the purpose of using TINKERCAD for simulation?
91. What is the flow chart?
92. What is the purpose of flowchart?
93. In which language we write our code?
94. Which command is used for delay between two commands?
95. What are the disadvantages of the solenoid actuator?
96. How current travel inside the circuit?
97. How is the potential difference created?
98. How do we get the DC power?
99. What is a rectifier?
100. How do we connect different components in the project?

4. ELECTRICITY FROM SLUDGE

1. What is Sludge?
2. What is Salt Bridge?
3. How does Salt Bridge work?
4. What are the types of bacteria?
5. Full Form of STP?
6. Life period of a Bacteria?
7. Difference between aerobic and anaerobic bacteria?
8. How will the maximum electricity crises?
9. Our project comes under which UN SDG goal?
10. How much sludge does India produce?
11. Will electricity from sludge benefit us?
12. How does STP work?
13. What is electricity?
14. Which State in India faces major Electricity crises?
15. Demand of electricity in INDIA?
16. What is Atom?
17. What is electron?
18. What is proton?
19. What is neutron?
20. Can we see atom with our naked eyes?
21. Do Sludge have electron?
22. Full form of SDG?
23. Full form of UN?
24. How much coal is supplied by coal India limited?
25. Is electricity generated from coal beneficial?
26. Cost of our project?
27. Will generation of electricity from sludge cause any pollution?

28. 1kg of sludge will generate how much electricity?
29. Where can we use our idea?
30. Why is price of electricity increasing?
31. What is fuel cell?
32. How is salt bridge made?
33. When will coal and petroleum get finished?
34. Which bacteria is present inside the sludge?
35. Who discovered proton?
36. Who discovered electron?
37. Who discovered neutron?
38. What is our government doing to minimize the electricity crises?
39. What is Niti Ayog?
40. What are thermal power plants?
41. How does fuel cell work?
42. Unit of power?
43. What is salt?
44. What is wire?
45. What is DC current?
46. What is AC current?
47. What happens if we do not use Slat Bridge in fuel cells?
48. 1W equals to?
49. Explain the respiration of aerobic bacteria?
50. Explain the respiration of anaerobic bacteria?
51. Will STPs accept our project?
52. What is Ohm's law?
53. Formula to calculate power?
54. Who discovered Atom?
55. How was electron discovered?
56. How was proton discovered?
57. How was neutron discovered?
58. Unit of energy?
59. Are government incentives available to reduce the price?
60. What are the different types of non-renewable energy?
61. What is non-renewable energy?
62. What are conventional sources of energy?
63. What is renewable energy?
64. What are the different types of renewable energy?
65. Who will finance the project?
66. How is the model innovative?
67. How is the model cost effective?
68. How is the model more efficient?
69. How much will its maintenance cost?
70. What is the future use of this project?
71. How will you publicize the model?
72. Is it suitable for all types of climate?
73. What is a conductor?
74. Are there any safety standards for our project?
75. How long does it take to install our project?
76. How long will 1kg sludge work?
77. How much energy is produced in 1kg sludge?
78. What should be the thickness of the sludge?
79. How much electron is produced in single respiration of bacteria?
80. How does STPs work?
81. Define resistivity?
82. Define conductivity?

83. What is battery?
84. Define resistance?
85. Difference between AC & DC currents?
86. How are Methane produced?
87. How will you define good sludge?
88. Can we determine direction of current?
89. How is electricity created?
90. SI unit of Resistance?
91. SI unit of potential difference?
92. Can we use wire instead of salt bridge?
93. On what principle does fuel cell work?
94. Why electricity department in India is in loss?
95. What steps does the government take to minimize the loss?
96. What is the speed of electricity?
97. Is our idea practically possible?
98. How much time will it take for implementation of our project on 1 STP?
99. Cost of prototype?
100. How electrons move in wire?

5. DELHI DUKAN: VOCAL FOR LOCAL

1. Who are vendors?
2. Who are customers?
3. Define online shopping
4. What is E-commerce?
5. What do you understand by Vocal for Local?
6. What is a website?
7. Define webpages
8. Difference b/w website and webpages.
9. What is HTML?
10. What is CSS?
11. Full Form of HTML
12. Full form of CSS
13. Full Form of COD
14. Full Form of GST
15. Full Form of GDP
16. Full Form of UN SDG
17. Can we check the name of the vendor?
18. How do we know which shop this item belongs to?
19. Why does the customer need to enter his details?
20. How can we alter the quantity of products?
21. How online shopping is similar to offline shopping?
22. How can we purchase products?

23. How can vendors update their products?
24. How can vendors withdraw money?
25. What is a cart?
26. What is a wish list?
27. What do you mean by GST?
28. How online shopping is different from offline shopping?
29. What is purpose of Delhi Dukan?
30. Full form of 3'S.
31. What do you mean by 3'S?
32. How does it provide 3'S?
33. What do you understand about UN SDGs?
34. How many goals are there in UN SDGs?
35. How many goals are related to Delhi Dukaan?
36. How does the Delhi Dukaan contribute to GDP?
37. How can a person choose his/her choice of shop?
38. What are the different payment methods that can be used in Delhi Dukan?
39. What do you mean by COD?
40. How much GST is applicable on food items?
41. What are the feasibility & benefits of Delhi Dukan?
42. State different competitors of Delhi Dukan.
43. What are the differences between competitors and us?
44. Which was the first application similar to this?
45. What is a dashboard?
46. What do you mean by mobile application?
47. Difference between website and mobile app?
48. State different categories of mobile app
49. What do you mean by UI /UX?
50. What do you mean by frontend developer?
51. What do you mean by backend developer?
52. What do you mean by full stack developer?
53. In which format can we download the reports or information from the website?
54. Why is it necessary for the customers to add all details?
55. Why is it necessary for the shopkeepers to add all details?
56. State benefits of registering while shopping.
57. What are the cons of online shopping?
58. What are the pros of online shopping?
59. What is excel?
60. What is the extension for excel files?
61. What are the different items that we are providing via this platform?
62. How can customers select his favourite shop?
63. Explain the role of wishlist.
64. Explain the role of quick view.
65. What do you mean by description of the product?

66. Explain the role of cart.
67. Explain the role of Buy now.
68. Difference between wishlist and cart.
69. Difference between buy now and add to cart.
70. How can one track order?
71. What are the different security measures one should take while online payment?
72. What do you mean by tracking?
73. What do you mean by Shop by Departments?
74. What are the different departments for shopping offered by our website?
75. What does status depict about the product?
76. What do you mean by item is "in stock"?
77. What do you mean by item is "out of stock"?
78. Why order from us?
79. What are the different tabs in our website?
80. What do you mean by geolocation feature?
81. What do you mean by checkout?
82. How can we generate bills?
83. When can a shopkeeper withdraw money?
84. What is the minimum amount of sale required for a shopkeeper to withdraw money?
85. How can a shopkeeper view orders?
86. How can shopkeepers keep records of their orders?
87. Can both shopkeepers and customers register here?
88. Why is it better to do online shopping during this covid-19?
89. What do you understand by promotional offers?
90. What do you mean by internet security?
91. Why is internet security necessary?
92. What are the different security measures one should take while online shopping?
93. What is the difference between http and https?
94. Full form of SSL.
95. Why is SSL necessary?
96. What do you understand by empowering the offline market to the online market?
97. What do you mean by USP?
98. What do you understand by business model?
99. What do you understand by term start-up and profit?
100. What do you mean by generated sales report?

6. SMART MEDICINE BOX

1. What is STEM?
2. What is electronics?
3. What is the difference between electrical and electronics?
4. What is the difference between invention, innovation and discovery?
5. What are sensors?
6. What is the difference between battery and cell?
7. What is chemical energy?
8. What are other sources of energy?
9. What are the different types of batteries?
10. How many types of sensors are there?
11. What is the use of sensor?
12. How does a battery work?
13. What is the use of battery?
14. What is IoT?
15. What can we do in IoT?
16. Explain the title 'Smart Medicine Box'.
17. Why are we using 'Smart' here?
18. How does it help us?
19. Who are the target customers of our model?
20. How is the model innovative?
21. How is the new model better than the existing one?
22. Explain the model of 'Smart Medicine Box'.
23. What is the difference between light and electricity?
24. What is an electron?
25. What is current?
26. What is proximity sensor? What are its uses?
27. What are optical sensor?
28. Who will finance the project?
29. How is the model cost effective?
30. How is the model more efficient?
31. How much will its maintenance cost?
32. How will you publicize the model?
33. What is a conductor?
34. What is semiconductor?
35. What are different types of semiconductor?
36. What is the difference between conductors, insulators and semiconductors on the basis of their band gaps?
37. Which sensors are going to use in our project?
38. What are the different examples of IoT around us?
39. What is the use of optical sensor?
40. What are the different

components used in our project?
41. Explain the use of each component used in our project?
42. What are some daily life applications of IoT?
43. Explain the advantages and disadvantages of IoT?
44. Explain the future scope of model?
45. Explain the working of model briefly?
46. Does this model cause any bad impact on environment?
47. What is the main principle of "Smart Medicine Box"?
48. Is there any disadvantage of this model?
49. Why there is a need of Smart Medicine Box?
50. What are the problems faced in making this model?
51. How does real time clock works?
52. How data is stored on cloud?
53. Which technology is used in making of this model?
54. If the circuit breaks in the mid of its use, the how do you find the problem?
55. What is the function of microcontroller?
56. What are input devices?
57. What are output devices?
58. Give some examples of input and output devices?
59. What is Infrared Sensor?
60. What is the use of IR sensor?
61. Where IR sensor in smart medicine box is fixed?
62. How IR sensor does detect the motion of a person?
63. Name the components which are used as alert in this model?
64. How do we make our model user friendly?
65. How do you justify the 3 kinds of pricing?
66. What is included in premium box?
67. What is included in basic box?
68. What is included in advanced box?
69. How you intend to take user input?
70. What message is shown on LCD?
71. How do you plan to bring it to city market?
72. What problems do you expect?
73. How do you plan to rectify the problem faced?
74. How does rotary encoder work?
75. How are you planning to use it?
76. Is any other alternative to rotary encoder?

77. What is OLED Display?
78. How does OLED work?
79. What is the full form of OLED?
80. What is the full form of LED?
81. What is the full form of LCD?
82. How OLED is different from LCD?
83. What are the advantages of OLED over LCD display?
84. What are the disadvantages of OLED over LCD display?
85. What are the advantages of LCD over OLED display?
86. What are the disadvantages of LCD over OLED display?
87. What is discharging of battery?
88. What is overcharging of battery?
89. What is undercharging of battery?
90. What is PCB?
91. What is the use of PCB?
92. What is the full form of PCB?
93. What is LIPO battery?
94. What is soldering?
95. What is soldering iron?
96. What is solder?
97. What is soldering flux?
98. What is breadboard?
99. How to use breadboard?
100. What is a Hall-effect sensor?

7. Self-Balanced Electric Two-Wheeler

1. Is it an invention?
2. If it is an innovation, then what is innovation?
3. Is it fully applicable in protection from accidents?
4. It provides fuel or not?
5. Is it electrical?
6. Which instrument, do you use to make it electrical?
7. What is hub motor?
8. Where it is placed in the vehicle?
9. By placing hub motor and making the vehicle electrical, then there is any use of engine?
10. How do you make it self-balanced?
11. Which type of changes you are doing in it to make it an innovation?
12. Who invented it?
13. Who is the first to launch it in the market?
14. In which country, it is first used?
15. What is the name of its company?
16. What is the copper winding, used in hub motor?
17. How much it will cost in whole in that country, where it is made?
18. Is it successfully in India, according to its cost in that country?
19. How much it will cost if you make it here?
20. Is it then successful?

21. Will it travel a long distance on a battery?
22. If it can, then how?
23. How will it physical appear?
24. What is ABS?
25. Is ABS included in this two- wheeler?
26. Can you differentiate between ABS and this self-balanced electric two-wheeler?
27. Which is better a vehicle included ABS or this self-balanced electric two-wheeler with ABS?
28. How much expenditure, it will take to be ready?
29. Will it be very expensive to buy?
30. What are its features?
31. If it is self-balanced, then is it consume a large space?
32. It heavy or light?
33. If it consumes a large space, then it leads to heavy traffic jam.
34. If it consumes less space, then what are its advantages?
35. If it will be lighter in weight, then how?
36. Is its battery rechargeable?
37. If it is electrical then will it consume a large amount of electrical to charge?
38. Is it covered from the top as shown in the YouTube video of that two wheeler made in the country?
39. Which types of feature is they company is including in their model to improve it?
40. Is that company successful now?
41. What is the main difference between that invention and your innovation?
42. Can you give us more information about that company?
43. In which year it is invented?
44. Will it look like a car?
45. Please tell about its inner mechanism?
46. How will you make it electric?
47. Will its mechanism not support large weight on it as it is light weighted?
48. By which percentage can you say that it prevents accident?
49. Is it preventing accidents more than normal vehicles including ABS?
50. Many of the companies are improving the ABS system in their vehicle and most of them are successful as well, and it preventing accidents also, so by making a two wheeler self-balancing and electrical as well will you making it more protected to drive?
51. What is self-balancing electric two-wheeler?
52. What is the use of hub motor?
53. Why are we using hub motor in self balancing electric two Wheeler?
54. What is gyroscope?
55. Why are we using gyroscope in our self-balancing electric two Wheeler?

56. What is the use of self-balancing electric two-wheeler?
57. Why are we making two-wheeler electric?
58. How is the self-balancing electric two wheeler look?
59. Is it invention or innovation?
60. Which company make the first self-balancing electric two Wheeler?
61. What is self-balancing electric two-wheeler?
62. How does the hub motor look?
63. What is the cost of self-balancing electric?
64. In which year it is invented?
65. Is any Indian company made the first self-balancing electric two-wheeler?
66. What is different in self balancing electric two wheeler
67. What are the benefits of self-balancing electric two-wheeler?
68. What is the use of gyroscope?
69. Which type of battery we use in our self-balancing electric two Wheeler?
70. Which type of mechanism we will use in our project?
71. What is SDG?
72. Is it applicable on our project?
73. Which SDG goal it is achieving?
74. Is it goal number 11?
75. What do you mean by this goal?
76. How is it applicable on our project?
77. Who is Daniel Kim?
78. Is he the founder of L.I.T motors?
79. What the term sustainable means?
80. How many goals it contains?
81. Or it contains only 11 goals?
82. SDGs are started by whom?
83. By which year we have to achieve SDGs?
84. Give a brief explanation about L.I.T motors?
85. What is its total expenditure?
86. How is it different from other two-wheeler?
87. Which type of things will we use in our project?
88. Is it look normal in size?
89. Is it lighter than normal two-wheeler?
90. How will we place hub motor in self balancing electric two Wheeler?
91. What is R and D?
92. What is the full form of R and D?
93. How will our project save the life of people during accidents?
94. Will this work on both fuel and electricity?
95. Why are we not using fuel in self balancing electric two Wheeler?
96. Why are we making it self-balancing?
97. Which type of problem will solve from self-balancing electric two-wheeler?
98. Is this easy to ride or any complications will occur?
99. Is this easy to ride in slum areas?

100. Is this cheaper than normal two-wheeler?

8. Waste paper recycling machine

1. What is Recycling?
2. What is the meaning of fabrication?
3. What do you mean by Natural Resources?
4. What is the full form of 3 R's?
5. What do mean by 3 R's?
6. How Can we save energy by recycling papers?
7. What is Greenhouse Gas?
8. Is recycling truly beneficial for the environment?
9. How does recycling save energy?
10. Is recycling the best management option? What other options are there?
11. What kind of paper should go in the paper recycling bin?
12. What is the aim of the project?
13. How is the model innovative?
14. What are the key benefits to recycling paper?
15. What kind of paper is recyclable?
16. Is all paper biodegradable?
17. Can Biodegradable paper be recycled?
18. Is Paper Eco-friendly?
19. What is the first operations on waste paper?
20. What are the use of pree and roller?
21. What is pneumatic jack?
22. What is the methodology of recycling?
23. What is purpose of recycling paper?
24. What is size of production paper?

25. What is the thickness of production paper?
26. What are the method of automation parts?
27. What is hydrapulper?
28. How paper maker is used?
29. What is Water remover?
30. How Dryer is used?
31. What is paper pulp?
32. What component we use for cleaning of paper?
33. How can we chop paper?
34. How unwanted substance is removed?
35. What is the inner diameter of hydrapulper?
36. What is the outer diameter of hydrapulper?
37. Who will finance the project?
38. How is the model cost effective?
39. How is the model more efficient?
40. How does the model work?
41. How much will its maintenance cost?
42. How will you publicize the model?
43. What is the future use of this project?
44. What are the benefits of recycling machine?
45. What is the height of cylindrical block?
46. What is the RPM of AC motor?
47. What is RPM?
48. How much volt is supplied for AC motor?
49. What is centrifugal force?
50. What is the length of papermaker box?
51. What happens during a power outrage?
52. What are dimension of water remover machine?
53. What is Shaft?
54. Where is the paper sheet has been placed?
55. What is the role of dryer?
56. How many motors are used for dryer?
57. How much volt is supplied for dryer motor?
58. What will be the cost of paper produce?
59. Where it can be used?
60. What will be Initial installation cost?
61. How pneumatic Jack work?
62. Which fluid is used in pneumatic Jack?
63. How much Pressure pneumatic Jack can apply on tray?
64. Difference between pneumatic Jack and screw Jack?
65. What is Baking soda?
66. Can it produce colour paper?
67. Can it produce different size paper?
68. What is meant by fabrication?
69. What is sustainable management?
70. What is durability of this machine?
71. What will be the electricity consumption per hour?
72. Difference between manual and automation?
73. How Automation reduce thickness of paper?
74. What are different things involved in automation?
75. How do we squeeze paper?
76. Which tree Is used for paper making?
77. Which industry recycle paper?
78. What will be Total cost of machine?
79. How heating coil works?

80. Total labour required to operate this machine?
81. What is the Thickness of paper?
82. What is the Dimension of the paper?
83. how long time it will take to produce one paper without automation?
84. how long time it will take to produce one paper with automation?
85. Who can operate this machine?
86. What is the size of machine?
87. How this machine can be taken from one place to another?
88. Are there any safety standards for this machine?
89. Can we use this paper for writing purpose?
90. What is the thickness of A4 size paper?
91. Is this machine cheaper than machines available in market?
92. How long does it take to install the machine for small start-up?
93. Do you need battery backup for this machine?
94. What is bleaching powder?
95. Can we use other chemicals instead of bleaching powder?
96. how long will it take to make it completely automated?
97. What are future scope of this machine?
98. Is this machine required frequent services?
99. What percentage of waste papers are recycled in India?
100. Can one paper be recycled again and again?

9. Recoil Reducing Compact Air Pressure Device

1. What is recoil?
2. What is momentum?
3. On what factors does momentum depend?
4. What harms does recoil pose on soldiers?
5. How can recoil be reduced?
6. What is a compressor?
7. What is a single stage compressor?
8. What is the formula of conservation of momentum?
9. Which gun is dominantly being used in Indian Defence Sector?
10. What is GDP?
11. What is the defence budget of India?
12. What is a barrel?
13. What air pressure would be required to reduce the recoil of the gun by 80%?
14. What method has been applied to calculate the pressure required to reduce the recoil of the gun?
15. Will the device help in creating jobs? If yes, how?
16. What is the full form of DRDO and its role?
17. Why is the recoil velocity very less as compared to the velocity of bullet?
18. What is Sustainable Development?
19. How our project is aligned with sustainable development?
20. What is Centre of Gravity?
21. What role does center of gravity plays in our project?
22. What are the approximate values of Defence budgets of India, China, US, Russia, Japan & Finland in terms of GDP?
23. Which location on the gun has been decided to place our device for best results?
24. What will be the new recoil velocity after installing the device?
25. What is psi and to which physical quantity is it related?
26. What is suction valve in reciprocating compressor?
27. What is discharge valve in reciprocating compressor?
28. What is pressure?
29. What is mass and velocity?
30. What is force?
31. What negative sign means in conservation of momentum?
32. What is recoil velocity?
33. Difference between velocity and acceleration?
34. What is piston?
35. What is pressure gauge?
36. Which gun has least recoil?
37. Which is the best gun used by Indian soldiers?
38. Which gun has minimum recoil?

39. What do you mean by accuracy and precision?
40. Which law of Newton defines the conservation of momentum?
41. What is mass?
42. Difference between weight and mass?
43. What do you mean by gravity?
44. What is full form of Ak 47?
45. Why aluminium is used as a material?
46. What are major drawbacks of Ak47?
47. What do you mean by Reaction force (Fr)?
48. What do you mean by imparted force (Fi)?
49. What do you mean by discharge pressure?
50. What do you mean by discharge velocity?
51. What do you mean by specific weight?
52. What is ductility?
53. Define melting point?
54. What tensile strength means?
55. What are metals?
56. Which gun has maximum Recoil?
57. Why max. Amount of recoil going upward?
58. All gun has same type of bullets?
59. All gun has same amount of recoil?
60. What is the meaning of reciprocating?
61. What are compressors?
62. How many types of compressor?
63. What is meant by stroke?
64. What is top dead center?
65. What is bottom dead center?
66. How bullet is fired at such a high velocity?
67. Why there is Bullet drop?
68. Why there is fire produce when we fire a Bullet?
69. How guns are made?
70. How bullet will fire?
71. How bullets are made?
72. What is automatic gun fire?
73. What is the firing range of AK47?
74. How many Bullets can fire AK47 GUN in one round?
75. All guns have same quantity of bullets in one round?
76. What do you mean by primary recoil?
77. What do you mean by secondary recoil?
78. What do you mean by primitive gun?
79. What is the unit of pressure?
80. What is the unit of force?
81. Name different type machining process?
82. What is full form of CNC?
83. Difference between lathe and CNC?
84. Make in India initiative comes under which ministry?
85. When did PM launched Make in India?
86. What is prototype?
87. Define stability?
88. Define air pressure?
89. What do you mean by equilibrium state?
90. What is the SI unit of temperature?
91. What is the SI unit of velocity?

92. What are the major properties of aluminium?
93. What do you mean by recyclability?
94. What are light metals? Name some of them?
95. What are the importance of conservation of momentum?
96. What is the SI unit of weight?
97. Name the main parts of gun?
98. What do you mean by heavy guns and light guns?
99. Difference between Ak47 & Ak56?
100. Which country has the highest defence budget?

10. Multi-Tasking robot

1. What is the aim of MT bot?
2. What is the full form of MT bot?
3. What does MT bot have?
4. What are the features of MT bot?
5. What is the main purpose of MT bot?
6. How does it walk?
7. What is used to make is move?
8. How motors are balanced to move MT bot?
9. How many motors have you used?
10. How does it operate?
11. What microcontroller have you used?
12. Can he speak?
13. How does it speak?
14. How's it useful in a public place?
15. Can it be used at home?
16. How can it be used at home?
17. What is sanitization?
18. Why does it include in it?
19. How does it sanitize?
20. What size of the bottle can be used for sanitization?
21. Is this sanitizer spray automatic?
22. How does it sanitize without contact?
23. Why does it sanitization is contactless?
24. Can it be used for regular sanitization?
25. What equipment are used for sanitization?
26. How does it measure temperature?
27. Does it measure temperature in C or F?

28. What equipment are used to make the temperature setup?
29. What sensor is used to measure temperature?
30. Where did the temperature show?
31. Can he speak the temperature written on it?
32. What is the voltage of the led screen?
33. How does the robot work at night?
34. Is there any torch in it?
35. How does torch will operate?
36. How does its sensor work at night?
37. Is there any microphone in the robot?
38. Which type of motor used in MT bot?
39. How many batteries are used in the project?
40. What are the total volts that are used?
41. How long can MT bot continuously work?
42. Can MT bot rotate its head?
43. What is the full form of LED and on which principles LEDs works?
44. What is microcontroller?
45. Which module is used for speaking of MT bot?
46. What is the quantity of speaking module is used?
47. Is MT bot also used for serving?
48. How much weight can MT bot hold in its hand at the time of serving?
49. How does it hold things in hand?
50. How long can a sanitizer bottle use?
51. What kind of sanitizer is being used?
52. What is the approximate weight of MT bot?
53. What is a resistor?
54. What is the SI unit of Resistor?
55. How can we measure the resistance of the resistor?
56. How does Wi-Fi module work?
57. What is the Bluetooth module?
58. How does it work?
59. What is the difference between Wi-Fi and Bluetooth transmission?
60. What is an ultrasonic sensor?
61. How does the ultrasonic sensor work?
62. What happens if MT bot hit the wall while walking?
63. How will it guess an object in front of it?
64. How can we control the motion of MT bot?
65. What is the rotation pattern of DC motors on wheels?
66. How will MT bot understand where to serve the things?
67. How does MT bot rotate its hand?
68. What would be the angle to move servo motor?
69. What is the difference between dc motor and servo motor?
70. How many instructions installed in MT bot?
71. For which purpose MIX90614 sensor used?
72. At what distance MT bot should measure the temperature of a person?
73. If the temperature shows by MT bot is high from the normal temperature then what'll be the instructions MT bot should give?
74. What does MT bot say if a person has a normal temperature?

75. If a person crosses the path without examining from the robot then what will be the instruction given by the robot?
76. What is the major idea behind this innovation?
77. Where do you come to know about such a thing that is possible to happen?
78. How long does it take to make the whole setup of the robot?
79. Does this project need the help of the software?
80. Where did you write the code of this project?
81. In What language did you write the project?
82. Where do you write your code?
83. What could be another name for this project?
84. How can this MT bot be relevant for a public place?
85. How does the monitor person operate it?
86. Can it be operated by mobile phone?
87. How many features can be added onto this project?
88. How can it be implemented in such places?
89. What is the motive we can achieve by this project?
90. Why do you think MT bot is useful for us?
91. How does MT bot recognize the human voice?
92. How did you manage to synchronize the movements?
93. When does it stop taking temperature measurements?
94. How long does it take to spray the full bottle of sanitizer?
95. What type of fiber or card board have you used for outer body?
96. Can you suggest more features that can be added in future?
97. How does it useful for kids?
98. How can it help in school/college premises?
99. Does it produce any e-waste?
100. How can it lead us to advancement of technology?

11. Vertical Axis Wind Turbine

1. What is air?
2. What is wind?
3. What is the difference between air and wind?
4. What is energy?
5. What is power?
6. What is the difference between energy and wind?
7. Difference between Energy and Power?
8. What is a force?
9. Newton's First Law of Motion?
10. Newton's Second Law of Motion?
11. Newton's Third Law of motion?
12. What is mass?
13. What is acceleration?
14. What is Distance?
15. What is displacement?
16. What is velocity?
17. What is Average velocity?
18. What is the weight?
19. What is the difference between speed and velocity?
20. What is the difference between mass and weight?
21. What is momentum?
21. How to calculate mass, if the weight of a body is known?
22. Unit of weight and mass?
23. What is the acceleration due to gravity?
24. What is gravitational force?
25. What is Energy?
26. What are the different forms of Energy?
27. What is the unit we usually use to measure the Energy?
28. What is Kinetic energy?
29. What is Potential Energy?
30. What is Energy Transformation?
31. What kind of energy we get from VAWT?
32. What is the Efficiency of a machine?
33. How to calculate the efficiency of a machine?
34. What are the main forces in Aerodynamics?
35. What is the name of a device that is used to measure the wind speed and to find the direction of the wind?
36. What is the conservation of energy?
37. How energy is conserved?
38. What is a Rotor?
39. What is Hub?
40. Which material is used to make the balls used in Bearing?
41. What is generally used to minimize the friction while rolling of balls in a Bearing?
42. What is the cause of blowing wind naturally?
43. What component is used in a turbine to control the orientation of the rotor?
44. What is offshore?
45. What do you mean by Coastal area?
46. What is the density of air?
47. How do we get to know the upcoming climate change?
48. Which device is used to control the rpm of the shaft connected to the rotor?
49. What is the Yaw mechanism?
50. What is the Power grid?
51. What is Core in a Transformer?

52. What is the work of a shaft?
53. What is the cross-sectional area of a shaft?
54. What is Aerodynamics?
55. What is an aerofoil?
56. What is CFD?
57. What is the difference between step-up and step-down transformer?
58. What is ohm's law?
59. What is Torque?
60. What is rpm?
60. What is the SI unit of torque?
61. What is the unit of rpm?
62. What is the relation between rpm and torque?
63. What is the mathematical formula of torque?
64. What are the losses in a transformer?
65. What are various parts of a Transformer?
66. What is the difference between the capacitor and the battery?
67. How do you distinguish between Battery and Capacitor?
68. What is Faraday's law of Electromagnetism?
69. What is Induction?
70. What does close circuit and open circuit mean?
71. Which electronic component is used to minimize the effect of current?
72. Why do vehicles need more torque or power in starting?
73. What is Bernoulli's principle?
74. What is a Turbine?
75. Which types of blades are generally used in VAWT?
76. What are Thrust, Lift, Drag, and weight forces?
77. What are three energies on which Bernoulli's Principle-Based?
78. Does a pressure difference cause of wind blow?
79. Which device is used to convert low rpm shaft to high rpm?
80. What do you understand by Mechanical Losses?
81. What is the minimum wind speed required to operate a Wind turbine?
82. What is 'coupling'?
83. What are methods to harness unwanted wind?
84. Which property of material tells us about the strength of that material?
85. Which two forces are responsible for operating VAWT?
86. What is the driving force in VAWT?
87. What does omnidirectional mean?
88. What is rotational energy?
89. Which device is used to transmit power?
90. What is the energy flow in VAWT?
91. What are the mechanical properties?
92. What is the name of a device that is used to measure the speed of a vehicle?
93. What is the factor of safety?
94. What is the difference between steel and iron?
95. What is an alloy?
96. What is fibre-reinforced plastic?
97. What is carbon fibre?
98. Which lightest metal has higher strength?
99. What is commercialization?
100. How to analyse the market for a product?

12. Atmospheric Water Generator (AAWAG)

1. What is a solar panel?
2. What are solar cells?
3. What do you mean by solar energy?
4. Why is solar energy known as green source of energy?
5. What are alternate sources of energy?
6. What are conventional sources of energy?
7. What is renewable energy?
8. What are the different types of renewable energy?
9. What is non-renewable energy?
10. What are the different types of non-renewable energy?
11. What is the aim of the project?
12. How is the model innovative?
13. How is the new model better than the existing one?
14. What are the applications of solar panel?
15. What is the structure of solar panel?
16. What is aawag?
17. What is an atmospheric water generator?
18. How do atmospheric water generators work?
19. How much water can Aldelano's atmospheric water generator (the Solar WaterMaker™) produce? (beyond the project but for ur knowledge)
20. What are the benefits of atmospheric water generators?
21. How are atmospheric water generators being used? And explain the points
22. Where is the generated water stored?
23. How much does it cost to run an AWG?
24. How much water does the average AWG produce?
25. Is AWG water the same as regular water?
26. How do you know the water produced by an AWG is clean?
27. How much energy does it take to produce generated water?
28. Is it harmful to the environment to take moisture from the air?
29. How is AWG water distributed?
30. What is the carbon footprint of AWG?
31. Can AWGs add the minerals found in tap water to generated water?
32. How are TUAFI's AWG factories different than traditional AWGs?
33. In which industry fields are atmospheric [water generators] distributed
34. Any other industries that might be interested in this innovative technology?
35. Is it coated with Heavy metal from the AC or what?
36. What do you understand by the term of atmosphere?
37. Are these products/devices currently being produced and distributed?
38. Is there a solar pv component to provide energy to the WFA device?

39. How much energy is used to produce a liter of water in optimal conditions?
40. How do I compare the effectiveness of competing methods of obtaining water from the air?
41. Would the quality and quantity of water produced from air change depending on air quality (pollution index)?
42. Would the quantity of water produced vary on a day to day basis?
43. What is humidity?
44. What is water drop let?
45. Is water vapour and water droplet same?
46. What is density?
47. Explain different type of density?
48. What is micro-organism?
49. What is bacteria?
50. How can you take drinking water from air?
51. Is the water produced by aawag Innovations clean and safe?
52. What happens to the atmosphere if we remove the water vapor?
53. Is there enough water in the air to aawag everyone's thirst?
54. Can I really get clean drinking water from air without all the impurities?
55. How are bacteria and other germs removed?
56. How much power does aawag Innovations machines consume?
57. Do the aawag Innovations units have special power requirements?
58. Is aawag Innovations machine difficult to install?
59. Will the machine overflow when full?
60. What taste or smell does the aawag Innovations water have?
61. Why do I need an atmospheric Water Generator? Is there something wrong with my tap water?
62. What about bottled water, isn't it safe and clean?
63. Is water produced by aaawag Innovations machine better than bottled water?
64. Is water from a aawag Innovation machine as good as the water coolers in offices with the 5-gallon bottle on top?
65. What is the cost and quality of aawag Innovations water when compared to bottled water?
66. Will my aawag Innovations machine give my home or office any other benefits?
67. What temperature and humidity do I have to have for the water machine to work?
68. What is an ideal temperature?
69. What is the maximum temperature required for aawag?
70. What is the minimum temperature required for aawag?
71. How often will my aawag Innovations machine need to change the filters and is it hard to do?
72. What is filter?
73. When does your filter get hard?
74. What is hard water?
75. What is soft water?

76. Is the water mineralized?
77. Is the water alkaline?
78. What do you understand by the term of alkalinity?
79. Is water acidic in nature?
80. Is water basic in nature?
81. How much water will the machine produce in a day?
82. At how much power the machine will work.
83. What is the power generated by single solar panel?
84. The total number of Solar panels to be used in the machine.
85. Size of each solar panel
86. What type of filter is used in AAWAG?
87. Why did we use high efficiency pleated filter?
88. What is a radiator?
89. What is a condenser?
90. How does a condenser work?
91. What is a flood alert system?
92. How does a flood alert system work?
93. What is a buzzer?
94. What is a water sensor?
95. Why we used copper condenser.
96. What are the benefits of this project?
97. What is the software used in this machine?
98. What is Internet of Things
99. How does IoT works in the machine?
100. Name some devices where IoT is used in daily life.

13. ULTRAVIOLET STERILIZER

1. What is UVC?
2. Is UVC harmful?
3. How does it affect germs?
4. Explain the working of UV light?
5. What does UV"C" or UV"GI" mean?
6. Do UV-C lamps produce ozone?
7. Does UV-C replace filters?
8. How do you size UVC applications?
9. Is UVC hard to install?
10. Where is UVC install?
11. Do you clean surfaces first?
12. Should UVC products be UL listed?
13. What are the limits of temperature, humidity and velocity?
14. How are used lamps disposed of?
15. When do you change lamps?
16. Do lamps need cleaning?
17. How are lamps cleaned when necessary?
18. Will UV-C kill dust mites?
19. Can UVC save energy?
20. Can UVC kill 100% of airborne microorganisms?
21. Is UVC expensive?
22. Can UV kill coronavirus?
23. How long does UV-light take to kill bacteria?
24. How does UV light kill bacteria?
25. What are the different categories of a UV-light?

26. Can UVC be used on the human body to disinfect against the coronavirus?
27. Do germicidal lamps kill viruses?
28. How often do the lamps need to be replaced?
29. How much intensity do you need to kill certain organisms?
30. Can germicidal lamps be turned on and off continuously?
31. How hot do the lamps get?
32. To be effective, how close to the surface do the lamps need to be?
33. What damage will the lamps do to us?
34. What effect does UV light have on surrounding materials?
35. Can germicidal UVC penetrate surfaces or substances?
36. How do you determine the square footage that one germicidal UVC lamp will cover?
37. How are UVC lamps used to disinfect the air?
38. What safety precautions should be taken when using germicidal UVC?
39. What is the power of the UVC lamp used?
40. What is the wavelength of the UVC lamp used?
41. What are the wavelength range of Uv lights?
42. What do you mean by Disinfection?
43. What do you mean by sterilization?
44. What is the difference between sterilization and disinfection?
45. What are the floor disinfectants?
46. What are the uses of floor disinfectant?
47. What do you mean by a UVC floor disinfectant robot?
48. Explain the working of the UVC floor disinfectant robot?
49. What are the components used for making the ultraviolet floor disinfectant robot?
50. Is there a separate compartment used for Sterilization?
51. What are the dimensions of the separate compartment used in our project?
52. Define the length, breadth, height and area covered by the UVC floor disinfectant robot?
53. How many UVC lights are used for our project and are they safe to use?
54. What is the length of the UVC lamp used for making the UVC floor disinfectant robot?
55. Is the device manual, semi-automated or automated?
56. What are the advantages and disadvantages of using a UVC floor disinfectant robot?
57. What is the difference between the prototype that we made and the products that are already available in the

market?

58. What is the approximate weight of our project?
59. What are the various components that are used in our project and what are their functions?
60. What is Arduino UNO?
61. Explain the working of Arduino UNO in our project?
62. What is relay?
63. What is the function of relay?
64. Which pins are connected to relay?
65. What is the full form of RX and TX on the Arduino UNO?
66. What are motor drivers?
67. Define the working of motor drivers?
68. Name the motor driver that is used in our project?
69. What are battery operated (BO) motors?
70. How many BO motors are used for our project?
71. What is bluetooth module?
72. Explain the use of bluetooth module in our project?
73. Name the type of bluetooth module used in our project?
74. What is choke?
75. Explain the working of choke?
76. What is AC to DC converter?
77. Why is it necessary to convert the AC supply into DC supply?
78. Under which UN sustainable development goal your project is based?
79. What are the sectors that will be benefited by our project?
80. How this method of using a floor disinfectant robot does is different from using the conventional methods for disinfection?
81. What are the problems that are solved by using this method of disinfection?
82. Why we have used microcontroller in our project?
83. Which microcontroller we have used in our project?
84. Can we use microprocessor instead of microcontroller in our project?
85. How many pins does the arduino contains?
86. What are jumper wires?
87. Define the function of jumper wires?
88. What are rubber tyres?
89. What is the function of rubber tyres in our project?
90. What is the length of the UVC lamps used in our project?
91. Is our project app controlled or not? If yes, then tell the name of the app.
92. Name the material used for making the outer body of our project?
93. What is the approximate cost of our project?

94. What are the future plans of our project?
95. What is the maintenance cost of our project?
96. What are the main benefits of using a UVC floor disinfectant robot?
97. What is the minimum time required for the disinfection of an object?
98. How much power supply is used by our project?
99. Is our project portable or not?
100. Who will be the targeted customers for our project?

14. Solid Waste Management

1. What we called as Waste management?
2. What are waste products?
3. What we called as smart colony?
4. Why is need waste management?
5. What are the basic ways to manage waste?
6. What are classification of waste?
7. What is bio degradable waste?
8. What is non bio degradable waste?
9. What are classification of biodegradable waste?
10. What are the different types of non-biodegradable waste?
11. Give example of some bio degradable waste.
12. Give example of some non-bio degradable waste.
13. How is the model innovative?
14. How our idea is innovative?
15. What are the method to implement our ideas?
16. What is the flow of conduct of our project?
17. What is the aim of the project?
18. What is manure?
19. What are the constituents for making manure?
20. What are the process for formation of manure?
21. What is the use of manure?
22. How manure is important for soil?

23. What is soil erosion?
24. What is soil fertility?
25. How can we say soil is fertile or not?
26. What is pollution?
27. What is different types of pollution with example?
28. What is soil pollution?
29. How can we reduce soil pollution?
30. What do you mean by recycle and reuse?
31. How much area is needed for making biogas?
32. What is biogas?
33. What do you mean by waste disposition?
34. Who will make manure for us?
35. What do you understand by SDG?
36. What is the full form of SDG?
37. What are SDGs which align to our project?
38. How is the project cost effective?
39. How is the project more efficient?
40. What do you understand by SDG 11, SDG 12 AND SDG 15?
41. How much will its maintenance cost?
42. How will you publicize the model?
43. What is the future use of this project?
44. What is mobile application?
45. What is database?
46. What are the different colors of bins are used for collection of wastes?
47. How compost is is helpful for soil?
48. Is it suitable for all types of climate?
49. What do you mean by consumption of waste product?
50. What is fertilizer?
51. Is are project is feasible?
52. Who will collect garbage from home?
53. In which way we will use profit?
54. How much minimum profit we get?
55. How do we share profit in team members or in colony members?
56. What are the constituents of soil?
57. Are government incentives available to reduce the price?
58. What are the raw materials we need for biogas?
59. What are the products of biogas?
60. Which gas will release from bio gas?
61. How much time is needed to convert waste in manure?
62. Who invented biogas?
63. What do you mean by slurry?
64. What is the working of biogas?
65. What we do with the waste which is non usable?
66. Explain whole procedure of our project.
67. How is this helpful for government?
68. Which are parts which we need help of local government?
69. How we sell the manure?
70. What are the information's we store in our database?
71. How we will make our application?
72. Which software we use for making of our

mobile application?

73. What are the legal permissions we have to take for implementing our project practically?
74. What are some limitations of our project?
75. How we manage the bad odor which will release from our bio plant?
76. What is the difference between bio degradable and non-biodegradable waste?
77. What is digester in bio plant?
78. What are the benefits from this project to the gardener?
79. What are the constituents of slurry?
80. What is the use methane gas which is released by bio plant?
81. What is full form of MSW?
82. How we separate waste?
83. On which basis should we separate our waste?
84. What is organic waste?
85. How we differentiate between bio and no bio degradable waste?
86. What are the whole budget of this project?
87. How we manage the lowest cost at which we can implement our project?
88. What do you mean by e-waste?
89. How our project will manage electronic waste?
90. How should we improvise our idea?
91. How can we manage e-waste that is waste data?
92. What are process of recycling?
93. Are plastic wastes recyclable?
94. How many types of recycling are there? Name them.
95. What items cannot be recycled?
96. How we transfer non-biodegradable to municipality?
97. How our project will affect our environment positively/negatively?
98. How many SDGs are there in total??
99. Who will make the mobile application?
100. Who will manage the database?

15. Water Conserving Faucet

1. What is the percentage of water present on earth?
2. What are conventional sources of water?
3. What are non-conventional sources of water?
4. What percentage of water is rated drinkable among all the sources on earth?
5. What is United Nations?
6. When was United Nations formed and by who?
7. How many states are members of United Nations?
8. What is sustainable development?
9. What is envision 2030?
10. What do you mean by SGDs?
11. How many SGDs are there?
12. What is goal no. 6?
13. What is a tap/faucet?
14. What is a nozzle?
15. What is a washer?
16. What is the function of a washer?
17. What is water scarcity?
18. How does water scarcity affect the lives of people?
19. Is water scarcity a serious problem in India?
20. What do you mean by cross-section?
21. What is a salt?
22. In which reaction do we get salt as a product?
23. How many types of salts are there?
24. What is a compound?
25. What is an element?
26. What is an atom?
27. What is a molecule?
28. Is water a molecule?
29. What do you mean by the term chemical formula?
30. What is the chemical formula of water?
31. Difference between a compound and molecule?
32. What is Dalton's atomic theory?
33. Another name for Dalton's atomic theory?
34. What were the things that were found inside the atom?
35. Symbol of electron?
36. Symbol of proton?
37. What is an ion?
38. What are the different types of ions?
39. What are the different types of compounds?
40. Define organic compound?
41. Define inorganic compound?
42. What is tds?
43. How is tds measured?
44. What are the units in which tds is measured?
45. What is the maximum level of tds accepted for drinking purposes?
46. What level of tds is considered excellent for drinking purposes?
47. What level of tds is considered harmful for drinking purposes?
48. Which organization set the standards for tds?
49. What is Bernoulli's principle?
50. What do you mean by an atomizer?

51. What does an atomizer do?
52. Is water conservation possible using atomizer?
53. Which principle does an atomizer follow?
54. What is the flow of pressure in case of a pressure difference for fluids?
55. What are the other applications of Bernoulli's Theorem?
56. Can we make an atomizer at home?
57. What do you mean by mist?
58. Is mist different from a rainfall?
59. Which Ministry looks after development and regulation of water resources of India?
60. When was Ministry of Jal Shakti formed?
61. What were the names of the preceding Ministries before ministry of Jal Shakti was made?
62. What was the objective of forming Ministry of Jal Shakti?
63. Who is the current water minister of India in union cabinet?
64. Under whose Guidance was Jal Shakti Abhiyan Started?
65. What kind of materials are used for making a faucet/tap?
66. Why Plastic is used for making taps?
67. Can we use metals for making faucets/tap?
68. What characteristics should be present in a metal so that it can be used for making Faucets/Tap?
69. Is Union government bringing any reforms regards to water conservation and regulation?
70. Is there any subsidy given by the government on water for domestic purpose?
71. Are water reforms beneficial for our project?
72. How much water can we save using our faucet?
73. How will it save water?
74. How much will it cost?
75. How many components are being used in developing the prototype?
76. Are there any electrical components used in the prototype?
77. Is there any automation involved in the prototype?
78. How will the automation process work?
79. What is Arduino?
80. What is a CPU?
81. Is there any similarity between a CPU & Arduino?
82. What is a sensor?
83. What does a sensor do?
84. Do all sensors need electricity to work?
85. How many types of sensors are there in the market?
86. What kind of a sensor is going to be used in the prototype?
87. What are ultrasonic waves?
88. Which animals use ultrasonic waves for navigation?
89. Can humans hear ultrasonic waves?
90. What is the audible range in humans?
91. What are the applications of ultrasonic waves?
92. How does an ultrasonic sensor work?
93. What is the full form of SONAR?
94. How much power is consumed by the prototype?

95. Will it work on renewable energy?
96. What will be the shelf life of the final product?
97. Where can we use the faucet?
98. Can we use the faucet in rural areas?
99. Do people have to acquire any special knowledge prior to using the faucet?
100. Do we have to buy a special accessory to install the faucet in any place?

16. WATER USAGE TRACKING SYSTEM

1. What is a funduino?
2. What are sensors?
3. What do you mean by jumper wires?
4. Why is arduino?
5. What is bluetooth module?
6. What is bluetooth?
7. What is renewable energy?
8. What are the different types of renewable energy?
9. What is non-renewable energy?
10. What are the different types of non-renewable energy?
11. What is flutter?
12. What is HC-05?
13. What is dart?
14. What is programming?
15. What water levelling switch?
16. What is the IDE?
17. What is arduino libraries?
18. What is nano technology?
19. What is quantum technology?
20. How to integrate software and hardware?
21. What is the use of software?
22. What is SDG goals?
23. How sensor works?
24. What is the work of bluetooth?
25. What is the full form of SDG?
26. What is the use of arduino?
27. What is the use of water sensor?

28. How iot improves our lives?
29. What is switch?
30. What is the function of arduino?
31. What is data?
32. What is the function of application?
33. What is the use of this project?
34. What is the FULL FORM OF IOT?
35. What is IOT?
36. What is the use of IOT?
37. How does IOT work?
38. What are the Real time application of IOT?
39. What is the function of wifi module?
40. Who will finance the project?
41. How is the model cost effective?
42. How is the model more efficient?
43. How does the model work?
44. How much will its maintenance cost?
45. How will you publicize the model?
46. What is the future use of this project?
47. What are the benefits of solar panels?
48. What is the difficult part to maintain?
49. When the device should be replaced?
50. How long is the life of the device?
51. Is it suitable for all types of climate?
52. Can this project work in all weather?
53. Will it gibe the accurate readings?
54. What happens during a power outrage?
55. What do you understand by SDG?
56. What is the full form of SDG?
57. What are SDGs which align to our project?
58. How is the project cost effective?
59. How is the project more efficient?
60. What do you understand by SDG 11, SDG 12 AND SDG 06?
61. Define SDG 6?
62. How much will its maintenance cost?
63. How will you publicize the model?
64. What is the future use of this project?
65. What is mobile application?
66. What is database?
67. In which way we will use profit?
68. How much minimum profit we get?
69. How do we share profit in team members or in colony members?
70. What are the information we store in our database?
71. How we will make our application?
72. Which software we use for making of our mobile Application?
73. What are the legal permissions we have to take for implementing our project practically?
74. What are some limitations of our project?
75. What are the Benefits of our project?
76. How our project will affect our environment
77. Positively/negatively?
78. How many SDGs are there in total??
79. Who will make the mobile application?
80. Who will manage the database?
81. What are the whole budget of this project?
82. How we manage the lowest cost at which we can implement our project?

83. Are government incentives available to reduce the price?
84. How does sensors work?
85. Do sensors need electricity?
86. Application of Sensors in everyday life?
87. How does bluetooth work?
88. How will we use bluetooth in arduino?
89. What are other UN SDGs?
90. How do sensors collect data?
91. What type of data do sensors use?
92. What is code?
93. How can we write code?
94. How is code written in arduino?
95. Languages to write code for computers?
96. How does Arduino code work?
97. What are some other uses of Arduino?
98. Can there be a substitute of Arduino in our project?
99. What is full form of IOT?
100. What IS full form of UNSDG?

17. REAL TIME FACE MASK DETECTOR

1. In which technology our project is based?
2. What is machine learning?
3. What is convolutional neural network?
4. What is tensor flow?
5. What is keras?
6. What is openCV?
7. What UN SDG involves in our model?
8. What is the meaning of real-time?
9. What is the problem that motivates us to introduce this model?
10. What is the solution for our model?
11. Give the Machine Learning real-world example
12. What is ROI?
13. What is Artificial Neural Network?
14. Where the model will be used (places)?
15. How many people it detects at a time?
16. Is it useful for entry point?
17. What you have learnt?
18. Our project is software based or hardware based?
19. What is the software based project?
20. What is the hardware based project?
21. What is the cost of the project?
22. Is tensor flow an open-source library?
23. Is keras an open source library?
24. Which library acts as the eyes of the model?
25. Which library brings the image to the model?
26. What is the conclusion of the project?
27. What is the interface of the tensor flow?

28. What is the backend of the keras?
29. Is model supports any alarm?
30. What is the sound of the alarm?
31. When the alarm will produce sound?
32. What is the colour of the frame when the masked person is detected?
33. What is the colour of the frame when the unmasked person is detected?
34. Our model is supervised or unsupervised learning based?
35. What is supervised learning?
36. What is unsupervised learning?
37. Which IDE we have used?
38. Which distribution we have used?
39. Give an example of supervised learning?
40. Give an example of unsupervised learning?
41. In what colours openCV detects objects?
42. Do CNN use for pattern recognition?
43. How does CNN recognise pattern in our model?
44. What is Dataset?
45. What is Training Dataset?
46. What is testing dataset?
47. Is our model works effectively against novel coronavirus?
48. How many image folders are there in our model?
49. What are the image folders in the model?
50. Do our model makes the environment safe?
51. How many image are there in the dataset in total?
52. How many images are there in training dataset?
53. How many images are there in testing dataset?
54. Do testing occurs first or training?
55. How many% training dataset contributes?
56. How many % testing dataset contributes?
57. What is the meaning of inclusive in UN SDG?
58. What is the meaning of resilient in UN SDG?
59. What is the meaning of sustainable in UN SDG?
60. Which main pandemic we are referring in this model?
61. What is pandemic?
62. Do our model supports social distancing?
63. What are the features of the model?
64. Do machine learning requires any human intervention?
65. Is ANN inspires from Human Neural Network?
66. Which works faster ANN or Human Neural Network?
67. Which is more accurate ANN or human neural network?
68. Is ANN a part of machine learning?
69. Which camera we are using?
70. Does it requires any external camera?
71. Which library is linked with camera?
72. Can model work on mobile?
73. Can model works on an app?
74. Do machine learning works on past experiences?
75. Do machine learning works for predicting the model?
76. What is pharmaceutical activities?
77. What is non-pharmaceutical activities?
78. Is model contactless and touch less?
79. Do it checks partially occluded faces?

80. Does it motivates the mask-wearing activity?
81. For how much time our model works?
82. What have you learnt from the model?
83. What is the meaning of library in machine learning?
84. Does it gives the alarm in partially occluded faces?
85. How many cameras are required?
86. Do CNN has hidden layers?
87. Do CNN produces output with output layer?
88. Do CNN works with filters?
89. Do it demotivates virus reproduction number?
90. Does our model provides helping hand to the government?
91. Do it also help security department?
92. Does CNN works on pixel data?
93. What is pixel?
94. Do it demotivates infection attack rate?
95. Which libraries are used for training data?
96. What is the accuracy of the model?
97. Do CNN works for image recognition?
98. What do you mean by open-source library?
99. Does CNN works for image processing?
100. Which library aims as real –time computer vision?

18. MASK AND THERMAL SENSITIVE DOOR

1. What is Arduino?
2. What is the stable version of Arduino software?
3. Who is the developer of Arduino?
4. Why should we use Arduino?
5. In which language Arduino software was written?
6. What are the advantages of the Arduino?
7. What are the IDE toolbars of Arduino?
8. What is an Arduino sketch?
9. What are the three important parts of Arduino?
10. What are the software structure functions?
11. What is the use of operators in Arduino?
12. How can we declare the functions?
13. Which function is used to find the length of string?
14. How to convert string to uppercase?
15. What are the functions of time in Arduino?
16. What are libraries in Arduino?
17. What is a conductor?
18. What is an insulator?
19. What is semiconductor?
20. What are transducers?
21. What are sensors?
22. What is a breadboard?
23. Name any 5 types of sensors?
24. What is jumper wire?

25. What are different types of jumpers wires?
26. Give examples of semiconductors?
27. Give an example of a conductor?
28. Give an example of an insulator?
29. Why *are you* creating this thermal mask detecting sensor?
30. What is the advantage of creating this mechanism?
31. How many electronic components are required to create this thermal mask detecting sensor?
32. How many pins are there in Arduino?
33. Can we sell this as a useful product in the market?
34. If we can sell this mechanism in the market, then why will customers choose our mechanism only?
35. What is the use of an Arduino in a project?
36. What is an ultrasonic sensor?
37. What is the use of ultrasonic sensors in our project?
38. What is a Bluetooth module?
39. What is a DC motor?
40. DC motor pump?
41. What is the use of a 9V battery in our project?
42. What is the use of LCD displays in our project?
43. What is the use of wheels in our project?
44. What is the use of pipes in our project?
45. What is the use of cardboard boxes in our project?
46. What is a breadboard?
47. What is the use of a breadboard in our project?
48. What are two basic types of bread board?
49. What are the two types of arduino we are using in our project?
50. What is the name of our project?
51. Mask detection mechanism is working under which Arduino?
52. Hand sanitization mechanism is working under which Arduino?
53. What is RFID scanning?
54. What is the door opening mechanism?
55. Can we add more features in our mechanism?
56. Name two types of pins in Arduino?
57. How many Digital pins are there in Arduino nano?
58. How many analog pins are there in Arduino nano?
59. What is the use of analog pins in Arduino nano?
60. What is the use of Digital pin in an Arduino nano?
61. What is the difference between analog and digital pins in Arduino?
62. What is the L298N motor driver module?
63. What is the use of Digital pin in an Arduino nano?
64. What is the difference between analog and digital pins in Arduino?
65. What is the L298N motor driver module?

66. Why are we using this L298N motor driver module?
67. What is the minimum range of Bluetooth?
68. What is the maximum range of the module?
69. What is the minimum range of the ultrasonic sensor?
70. What is the maximum range of the ultrasonic sensor?
71. What is a servo motor?
72. How many types of servo motor are there?
73. What is the use of a servo motor in our project?
74. What is the full form of LCD display?
75. What is the full form of RFID?
76. What is VCC?
77. What is ground?
78. What are Rx and TX?
79. What are the advantages of the project?
80. What is the use of the app?
81. What is the use of the app in our project?
82. How many DC motors are there in our project?
83. What is the use of sensors in our project?
84. What is the RPM of a DC motor?
85. What is an RF-ID scanner?
86. What is an RF-ID smartcard?
87. What is the use of the Bluetooth module in our project?
88. How many stages are there in our project?
89. What is the Size of the LCD?
90. What is the use of a DC motor in our Project?
91. Can we sell this mechanism with the door?
92. What is the use of a servo motor in our project?
93. What problem do you have?
94. What can be done to resolve the solution?
95. How much is the cost of making this project?
96. What social impact of this feature?
97. How can benefit this project in the office and college?
98. How can we develop a mask detection app?
99. What is the full form of BLE?
100. What is the full form of LCD display?

19. ARANYANI

1. What is SDG's stand for?
2. What is SDG?
3. What is SDG 11 Sustainable cities and communities?
4. What is SDG 12 Responsible consumption and production?
5. What is SDG 13 Climate Action?
6. What is SDG 15 Life on land?
7. How is Aranyani targeting SDG 12 Responsible consumption and production?
8. How is Aranyani targeting SDG 13 Climate Action?
9. How is Aranyani targeting SDG 11 Sustainable cities and communities?
10. How is Aranyani targeting SDG 15 Life on land?
11. What is soil farming?
12. What is hydroponics?
13. Difference between soil farming and hydroponics?
14. What is growth cycle?
15. Advantages of hydroponics?
16. Advantages of hydroponics over traditional soil farming?
17. Origin of hydroponics?
18. How Aranyani can help landless farmers?
19. How Aranyani can help farmers with minimal land?
20. Main motive behind Aranyani?
21. How Aranyani can benefits urban people?
22. How Aranyani takes less space than tradional soil farming?
23. How Aranyani uses less water?
24. How are we getting high density cropping through Aranyani?
25. Why do crops grow faster on Aranyani?
26. How crops through Aranyani is 100% organic?
27. Why we don't need to use herbicide's and pesticide's in Aranyani?
28. Type of vegetables that can be grown on Aranyani?
29. What is current status of Project Aranyani?
30. How vegetable is grown through Aranyani?
31. Describe basic structure of Aranyani?
32. How to scale our project Aranyani?
33. Explain the process from seed to sapling placed in Aranyani?
34. Why crops are organic through Aranyani?
35. How much does plant grow on hydroponics?
36. Why we don't need herbicides?
37. How do crops use less water?
38. How much less water does crop require through Aranyani in comparison to traditional soil farming?
39. How are we getting high density crops?
40. How can we cultivate anywhere on globe through Aranyani?
41. Advantage of cultivate anywhere on globe through Aranyani?
42. How are we utilizing space better in Aranyani?

43. How can we cultivate anytime on globe through Aranyani?
44. Advantage of cultivate anytime on globe through Aranyani?
45. Why it's not possible to continuously cultivate same crop on same land?
46. Can we continuously cultivate same crop on Aranyani?
47. Advantages of continuously cultivate same crop?
48. How attacks on pant pests are reduced?
49. Advantage's reduced plant pest attack?
50. How Aranyani reduces land wastage?
51. How Aranyani reduces water wastage?
52. What is the main principle of Aranyani?
53. Who are primary beneficiaries?
54. Who are Secondary beneficiaries?
55. How consumers are benefited through Aranyani?
56. How landless farmers are benefited through Aranyani?
57. How farmers with minimal land are benefited through Aranyani?
58. How carpenters are benefited through Aranyani?
59. How plumbers are benefited through Aranyani?
60. How Gardeners are benefited through Aranyani?
61. How vegetable vendors are benefited through Aranyani?
62. How grocery stores are benefited through Aranyani?
63. How can we make Aranyani self-sustaining?
64. Different parts used to build Aranyani?
65. Costing of different parts to build Aranyani?
66. What's the total cost to build Aranyani?
67. Types of Nutrient's used in Aranyani?
68. Role of temperature in Aranyani?
69. Role of TDS (total dissolved solids) in Aranyani?
70. Role of nutrient's in Aranyani?
71. What is NPK?
72. Role of ph in Aranyani?
73. What is TDS (total dissolved solids)?
74. What is ph?
75. How ph is measured?
76. What is ph scale?
77. What ph is suitable for Aranyani?
78. What will happen if tds is not maintained in Aranyani?
79. What will happen if ph is not maintained in Aranyani?
80. How can we control tds in Aranyani?
81. How can we increase ph?
82. How can we decrease tds?
83. What is micro-nutrients?
84. How can we increase ph?
85. What is the temperature range for Ananyani?
86. Why we need Aranyani?
87. What technique Aranyani use?
88. What is ph range for Aranyani?
89. What is the tds range for Aranyani?

90. What is the form of nutrients?
91. How can we improve Aranyani?
92. How does classical music help in increasing production of Aranyani?
93. How Aranyani helps in waste management?
94. How Aranyani can be used in urban areas?
95. How tds is managed?
96. For how many days a single reservoir can be re-used?
97. Cost of micro-nutrients?
98. Cost of saplings?
99. What is netcup?
100. What is coco-pit?

20. Waste Collector and Recycling

1. What is recycling?
2. Why we do recycling?
3. What is actually in waste?
4. What is called as waste?
5. How plastic was formed?
6. How waste become problem?
7. Types of plastics?
8. Our country approach towards it?
9. What is waste management?
10. What are the common methods of waste disposal?
11. How do I practice waste management at home?
12. What is wet and dry waste?
13. Difference between industrial and home waste?
14. Collection process present for waste collection?
15. How suction fan will work?
16. Retrodiction benefits?
17. Energy transmission?
18. What is sustainable development?
19. How to reduce waste at home level?
20. Quality of vehicle we can use?
21. How the installation of project will take place?
22. Quantity of waste produce in country and world?
23. Organic and non-organic waste difference?
24. 3R of environment?
25. What is electronic waste?
26. How suction will work?
27. Definition of churning?
28. How churning will take place?

29. Rotation of blade?
30. How heating will happen?
31. Type of heating?
32. Flame and non-flame heating?
33. Temperature difference?
34. What is hydrocarbon?
35. How petrol is formed?
36. What is distillation?
37. What is slurry?
38. How to transfer in the tank?
39. How to create storage?
40. How hydrocarbon will float on the tank?
41. Formation of plastic?
42. Need of plastic?
43. Why waste is produced?
44. Can we have Electricity from waste?
45. Present method for recycling?
46. How the collected hydrocarbon will be recycled?
47. How was will be sold?
48. Which kind of products from wax will be done?
49. How wax will come in practice?
50. How to take out remain slurry from tank?
51. How tray is formed?
52. How backing is done?
53. Material of tray?
54. Collection of waste?
55. Drying of material?
56. Boiling of material and property?
57. Types of land filling material?
58. What is deforestation?
59. How LFM will help?
60. 100% of waste recycling is possible?
61. How to do it automatic?
62. How do land filling material will be used?
63. What is over bridge?
64. How do we earlier use to form Land filling material?
65. What are common barriers to implementing waste diversion programs?
66. What are the benefits of maximizing waste diversion?
67. How to sell it in market?
68. Why do we buy these materials?
69. What would be the budget of the project?
70. Can we make this in our house also?
71. What is large scale implantation?
72. How can this work at large scale?
73. How to have large amount of waste?
74. Installation process?
75. Government help into it?
76. How frequently should the waste hauler be scheduled to pick up?
77. What area should we target for waste collection?
78. What should we have the dimension of trey?
79. How all these processes will be operated?
80. COVID-19 challenge for this setup?
81. How plant for this will be setup?
82. Area required for plant?
83. Machinery requirement for plant?
84. Baking process for brick?

85. Composition of waste in India?
86. Transportation of waste?
87. How to have contact less processing?
88. How other country dealing with waste management?
89. Any zero-waste country?
90. Indian govt. initiatives?
91. How to recycle at house level?
92. What is petrochemical waste?
93. Paper recycling process?
94. How to get energy for all the process?
95. Baking temp for LFM?
96. Will these Land filling materials will cause any harm to environment?
97. Wax products in details?
98. How to get the benefits from the production?
99. Any other material can be formed?
100. Properties for land filling material that is formed?

21. HUMAN COUNT DETECTOR

1. What is sensor?
2. How many sensors are in human body?
3. Which type of sensor are we using in model?
4. What do you understand by temperature sensor?
5. Name all the sensors present in human body?
6. What is the main symptoms of CORONA?
7. Why social distance is necessary?
8. What do you understand by term social distancing?
9. What is the normal human body temperature?
10. What is the maximum body temperature of human hand?
11. What is the minimum body temperature of human hand?
12. What is difference between degree Fahrenheit and Celsius?
13. What is formula to convert degree Fahrenheit to Celsius?
14. What is the use of a sensor?
15. What is another word for sensor?
16. In our project, does temperature sensor contactless or not?
17. From how many distance our sensor measures accurate human hand temperature?
18. Which temperature scale uses absolute zero as the 0 point of its scale?
19. What is full form of IR?

20. Who is your project guide?
21. What is microcontroller?
22. Name the microcontroller we are using?
23. What is the full form of LED?
24. What is maximum voltage required for LED?
25. Write two advantages of LED?
26. What is resistor?
27. Why are we using resistor in our project?
28. What is our project name?
29. What do you understand by term "HUMAN COUNTER"?
30. How much max distance require for bacterial virus?
31. What is the frequency (CLOCK SPEED) for Arduino UNO?
32. Why our device using LED over LCD?
33. How does adaptor in electric lock will get a command from Arduino UNO?
34. What is the full form of LCD?
35. Give some of the application of our components in daily life.
36. What is the aim of our project?
37. What is the unit of resistance?
38. What is the relation between current and voltage?
39. Which law gives the relationship between current and voltage?
40. Which language does computer understand?
41. Why microcontroller called as mini-computer?
42. How many poles in magnet?
43. Name the poles of magnet?
44. What happen when same pole from two other magnet comes close?
45. What happen when two different poles from other magnet comes close?
46. Which type of field is generated when current passes through wire?
47. What is the full form PCB?
48. What is the full for of AC?
49. On what current does LED works AC or DC?
50. What is the full form of DC?
51. What is the basic function of diode?
52. What does a buzzer do?
53. How many terminals are in diode?
54. What is anode?
55. What is cathode?
56. What is the direction of current?
57. Why does current flow from +ve to –ve terminals?
58. Can current flow from two different directions?
59. What is the full form of EMF?
60. What do you understand by term "Electromagnetic Field"?
61. What is a binary code?
62. What do you understand by programmable i/p and o/p?
63. What is digital pin in microcontroller?
64. What is analog pin in microcontroller?
65. What is proximity IR sensor?
66. What is the drawback of proximity IR sensor?
67. What is the binary code for switch ON?

68. What is binary code for switch OFF?
69. What is relay?
70. What is soldering?
71. Where are we using soldering?
72. What is transmitter (Tx)?
73. What is a receiver (Rx)?
74. Where is Tx and Rx are used in project?
75. How our project does is useful for current scenario?
76. Why are we using relay in project?
77. Other than COVID, where else our project is beneficial for society?
78. If our hand is 1cm apart from sensor, then does it give right value?
79. What is electric lock?
80. Which magnetic field is produced by electric lock?
81. What is total cost of project?
82. Is everybody produces IR rays?
83. What kind of symptoms are in COVID -19 and which your device focusing?
84. Is living beings produces heat?
85. How your model helps to reduce crime?
86. From which law we find the value of resistance?
87. Does this model only help to reduce COVID issue?
88. Does this model count animal or not?
89. Is Arduino Uno works on AC or DC or Both?
90. Does emf can be produced in wire without current supply?
91. What is right hand thumb rule?
92. What is the full form of USB?
93. Is there any legal issue related to project?
94. Is this model an innovation or modification?
95. In beginning TOF sensor was used but why you have to replace it?
96. Are there any safety standards for the working of model?
97. Weather there is any legal consequence from this model?
98. Give application of proximity IR sensor?
99. Who were your project mentors?
100. What was your experience during this project course?

22. HLED

1. What are electrons?
2. What are protons?
3. What are neutrons?
4. What are photons?
5. What is LED?
6. What the full form is of LED?
7. What are the advantages of using LED?
8. What are Disadvantages of using LED
9. What is Diode
10. Name few Parts of LEDs bulb?
11. Do Lights have any gas in them?
12. Do LED Bulb have filament?
13. Name Few Components of LED BULB?
14. What is diffuser?
15. What is control chip?
16. What is heat Sink in Led Bulb?
17. Which Element is used as filament in Incandescent bulb
18. How are Hled Better than LED.
19. What is full form of Hled?
20. What are Problems with LED?
21. Why working for under LED for long Causes Headache and Pain in eyes
22. What is conductor?
23. What is insulator?
24. What is full form of CFL?
25. What is light?
26. How does light Travel?
27. What is Speed of light?
28. What are Various Type of lighting
29. On What Type of Lighting Led Works
30. What is the full form of (SSL)?
31. Why LED is called solid-state lighting (SSL) device
32. What is wavelength?
33. What is measuring unit of wavelength
34. What is Angstrom?
35. Which Colour has the least wavelength?
36. Which Colour has the highest wavelength?
37. What is Wave length of Yellow Light?
38. Why are you using Yellow Filter?
39. Why Do LED Lights Attract Bugs?
40. Can Insects see Yellow light?
41. Can you use any other filter apart from yellow?
42. Is light White in color?
43. Which Colors VIBGYOR consist of?
44. What is spectrum?
45. How is the new model better than the existing one?
46. What is the objective of the project?
47. What do you mean by Circadian rhythm?
48. How Do LED affect Circadian rhythm?
49. What are Optical Filters
50. How Does Optical filter works?
51. What are the Properties of Filter you are using?
52. What are advantages of Optical Filters
53. Name Various type of optical filters
54. What is current?

55. How is current measured?
56. What is measuring unit of current?
57. How the model works?
58. What is the function of polyamide layer?
59. What is the working principle of the project?
60. Where polyamide layer is placed?
61. Which material is used to change blue colour of light to yellow?
62. What is a Capacitor
63. What is Resistor
64. What is ac?
65. What is dc?
66. How ac changes to dc?
67. White light consists of how many colors?
68. What is the wavelength of Blue light?
69. What is an inductor
70. How this project helps in solving the major problems?
71. What is the wavelength of blue light?
72. Light of which wavelength is advised to be reduced in traditional LED
73. In which direction does current flow in an electric circuit?
74. Which gases are present in incandescent light bulb
75. Is project weather dependent?
76. What is semiconductor?
77. Define voltage?
78. What is PCB?
79. Why are PCB green?
80. What is a circuit?
81. What are the two terminals of the bulb?
82. What is an UV light?
83. What is a battery?
84. What is wavelength of Visible light?
85. What is visible light?
86. Which light is not visible to some insects?
87. Why this light is not visible to some insects?
88. Do led_s have any effect on our life cycle or mental health?
89. What are led drivers?
90. Which instrument is used to measure voltage
91. What is anode?
92. What is cathode?
93. What is unit of Voltage?
94. Which terminal of led is attached to anode
95. Which terminal of led is attached to cathode?
96. What prompted you to take this project?
97. How much you have been succeeded in overcoming the problem?
98. What is meaning kapton tape?
99. What is kaptontape?
100. Full form of HID lights?

23. MUSICAL HYDROPONICS

1. What is hydroponics?
2. What is musical hydroponics?
3. What is music?
4. What is noise?
5. Difference between music and noise?
6. What is cocopeat?
7. What is rock wool?
8. What are clay balls?
9. What is sound?
10. Mechanism involved in hydroponics?
11. Benefits of hydroponics?
12. What is PH?
13. What is neutralisation?
14. What is PH scale?
15. What is transpiration?
16. What is frequency?
17. How to implement hydroponics in large scale?
18. How types of music differ growth?
19. What are fertilizers?
20. What is the medium used in hydroponics?
21. Are hydroponic foods healthy?
22. Why hydroponic cultivation is better than soil?
23. Disadvantages of hydroponics?
24. What is the temperature of the water in hydroponics?
25. Does hydroponics need sun light?
26. Is hydroponics eco-friendly?
27. Can we grow bananas hydroponically?
28. Which nutrients are added to hydroponics?
29. Can we grow paddy hydroponically?
30. What are the types of hydroponics?
31. What is nutrient film technology (NFT)?
32. Can we grow plants in hydroponics without nutrients?
33. What is air pump?
34. What is the use of air pump in hydroponics?
35. Do hydroponic vegetables taste different?
36. What cannot be grown hydroponically?
37. What is cytoplasm?
38. What are hormones?
39. Which hormones promotes growth?
40. How long do hydroponic nutrients last?
41. Why is hydroponics expensive?
42. Quantity of nutrients used?
43. Can we use tap water in hydroponics/soil?
44. Can we make hydroponic nutrients at home?
45. Why corn cannot be grown hydroponically?
46. Why vining and bush type crops cannot be grown hydroponically?
47. Why cocopeat, rockwool etc are used?
48. Why clay balls are light in weight?
49. How pattern of vibration differs in classical, rock, devotional?
50. Where can I grow with the hydroponic method?
51. Is hydroponics organic?

52. How can we recommend hydroponics to a farmer at an affordable cost?
53. Current status of hydroponic farming in India?
54. Can we grow algae in the hydroponic environment?
55. Best hydroponic culture medium for durum wheat?
56. Is there necessity of pesticides in hydroponics?
57. How long should we run the lights?
58. Does the nutrient solution need to be heated?
59. What humidity should be maintained?
60. Is ventilation necessary?
61. Is it necessary to prune the leaves of plants?
62. Is it necessary to aerate the nutrient solution?
63. What is the best water to use?
64. Is water quality important in hydroponics?
65. What is aquaponics?
66. Are there pest problems in hydroponics?
67. What to use if pests enter hydroponics?
68. Best PH for plants growth?
69. Does PH affect plant growth?
70. How often should I check the PH level?
71. What do I use to check the PH level?
72. What is TDS?
73. What are the common problems with hydroponics?
74. Should we clean hydroponic system?
75. Best thing to clean hydroponic system?
76. Does music help in evading insects?
77. What are the instruments used in classical music?
78. What are the instruments used in devotional music?
79. What are the instruments used in rock music?
80. What are stages at which nutrients are given?
81. Can we perform hydroponics outdoor?
82. What are the difficulties when hydroponics is done outdoor?
83. What is electrical conductivity (EC)?
84. What is parts per million (PPM)?
85. What are the components of musical hydroponics?
86. Is sunlight required for musical hydroponics?
87. Who discovered hydroponics?
88. Does hydroponics cause cancer?
89. Is musical hydroponics better than organic?
90. Are hydroponics nutrients safe?
91. Is hydroponics a GMO's?
92. Why is hydroponics not organic?
93. Are GMO's healthier than organic?
94. Why is hydroponics better than traditional farming?
95. Do these lights require special wiring?
96. Are HID lights efficient?
97. What should be the size of hydroponic system?
98. What should be the size of light?
99. Why roots of hydroponic plants shot?

100. What is the average cost of hydroponic system in India?

24. MODISH-LITTER-BASKET

1. What is waste?
2. How many types of waste?
3. What is biodegradable waste?
4. What is non-biodegradable waste?
5. What is density?
6. What do you mean by dense object?
7. What do you mean by lighter object?
8. What is plastic?
9. How many types of plastic?
10. Is plastic and polythene different?
11. How plastic beneficiary?
12. Why world mad about polythene?
13. How plastic effect environment?
14. Why plastic is not degraded by microorganisms in soil?
15. What are the bad effects of plastic in sea and oceans?
16. What are the bad effect of plastic if we dump it in land?
17. Why plastic float on water?
18. Is plastic lighter than water?
19. What are the problem occurring by the greenish layer on water?
20. How we can destroy polythene?
21. What are the different ways of using plastic?
22. What happens when we burn plastic?
23. If polythene is so harmful then why govt. not ban it?
24. What is the replacement of plastic?

25. Why polythene is so cheap?
26. What are the ways of reusing polythene?
27. Write some smart ways of reusing plastic at small level?
28. What is modish litter basket?
29. What type of technology used in modish litter basket?
30. How is it different from present day's litter basket?
31. How does modish litter basket work?
32. What type of waste is segregate by it?
33. What is IOT?
34. What is the need of IOT in this?
35. What is the benefit of IOT technology?
36. How the system is semi-autonomous?
37. What is inductive sensor?
38. What is capacitive sensor?
39. What is temperature sensor?
40. What is microcontroller?
41. What is ultrasonic sensor?
42. What type of work is done by microcontroller?
43. What is heating coil?
44. Why we use different types of sensor in it?
45. How is the new model better than the existing one?
46. What is the working of project?
47. Is there any use of electricity in this?
48. How we separate magnetic material from garbage?
49. How we separate plastic/glass from garbage?
50. How much energy consumed by the model?
51. What is the cost of model?
52. Is it affordable?
53. Are government incentives available to reduce the price?
54. Is it applicable on the small scale?
55. Is the model applicable on large scale?
56. Is there any harmful effect of the model?
57. Which SDG's targeted by the project?
58. Is it implemented by the government?
59. How much space is occupied by the model?
60. What are the drawbacks of the model?
61. How much garbage is segregated?
62. How does semi-autonomous technology helpful in clean environment?
63. How much cost spent on the project?
64. Is every type of metal segregated by it?
65. What type of algorithm used in the project?
66. Why we require modish litter basket?
67. What is the basic structure of modish litter basket?
68. How we recycled plastic waste?
69. How we can generate new products from plastic?
70. How we reuse / recycle magnetic material?
71. How we make fertilizer from biodegradable waste?
72. How we can generate biogas from biodegradable waste?

73. What is the life time of the model?
74. Do we recover it if damaged?
75. What is the maximum temperature at which plastic segregated?
76. How much time is required by the model to segregate the garbage?
77. How does ultrasonic sensor work?
78. On what type of material capacitive sensor works?
79. What type of objects sense by capacitive sensor?
80. How does inductive sensor work?
81. What type of objects detect by inductive sensor?
82. How does temperature sensor work?
83. What is relay?
84. How does relay works?
85. Is the model easy to use?
86. What is the need to segregate garbage?
87. Why we cannot burn the garbage?
88. What are the other technologies to clean the heap of garbage?
89. At how much extent 3 bin system introduced by the government is successful?
90. Is modish litter basket coming under solid waste management?
91. How much garbage generated in India?
92. What type of technologies is used by the government to clean the heap of garbage?
93. At how much extent this model is successful to clean the environment?
94. Is chemical, medicinal waste separated by the model?
95. Is this model a type of dustbin?
96. What is the material used in making modish litter basket?
97. Why we can't separate out chemical industries waste from the model?
98. Is that model applicable for household waste?
99. How we can separate sanitary napkins from the garbage by this model?
100. How the project targets swach bharat abhiyan?

25. Forest-Desert Land Segregation

1. What is the Anveshana event about?
2. Why did we choose this project?
3. What does goal 15 i.e., life on land mean?
4. What is a satellite image?
5. Why can't we use satellite images directly?
6. How are forests protected with this?
7. Can we use this software for other photos?
8. What will we do with this project after completion?
9. Is this for us or for the government?
10. If we stop cutting trees how will the needs get fulfilled?
11. What is sustainable development?
12. What are the 17 UN sustainable development goals?
13. What is the UN Environment`s role?
14. Why did the UN make 17 goals of sustainable development?
15. What is the need of sustainable development to the world?
16. Why have we used green and yellow color to display?
17. How image segmentation is going to help in our project?
18. What is machine learning?
19. How do we represent forest and desert land in our project?
20. How will the government use this project to prevent land degradation?
21. How are we using machine learning in our project?
22. How are we getting satellite images?
23. What does the code look like?
24. What is image segmentation?
25. What is a dataset?
26. What is the difference between AI (Artificial Intelligence), ML (Machine Learning) and deep learning?
27. What is biodiversity?
28. What is desertification?
29. What is natural habitat?
30. What is ecosystem?
31. What is Afforestation?
32. What is Deforestation?
33. What is the ML model?
34. What is pixel in images?
35. What is conservation of forest?
36. Why do we need to conserve forest?
37. What is flora and fauna?
38. What is an online portal?
39. What is the interface?
40. What is frontend?
41. What is a backend?
42. What is the framework?
43. Which frontend framework are we using in our project?
44. Which backend technology are we using?
45. How our project is ensuring sustainable implementation of goal 15?
46. How our project is cost-effective?

47. How will our project help in monitoring the forest activities?
48. How will the government use our project?
49. What is the efficiency of ML Model?
50. What is the required efficiency for a model to work?
51. What is the meaning of segregation?
52. What are we segregating here in our project?
53. What is training of models in machine learning?
54. How many minimum images needed to train our model?
55. What is the need of the UN?
56. How much time will it take to complete our project?
57. What is JavaScript?
58. What is reacts?
59. Why are we using react is for frontend?
60. What is flask?
61. What is segmentation?
62. What do you mean by algorithm?
63. What do you mean by deep learning?
64. What is CNN (Convolutional Neural Network)?
65. What is Fully Connected Neural Network (FCCN)?
66. What is the difference between FCNN and CNN?
67. What are Pattern Recognition problems?
68. What is image classification?
69. What is Image detection?
70. What is semantic segmentation?
71. What is instance aware segmentation?
72. What is U-Net?
73. What is encoder-decoder architecture?
74. What is U-Net architecture?
75. What is up-sampling and down-sampling in unet?
76. What do you mean by attention?
77. What are the different types of attention? \
78. What is hard attention?
79. What is soft attention?
80. What is optimization?
81. What is transfer learning?
82. What is ResNet-34?
83. What is skip connections?
84. What is image recognition?
85. How is our project similar to radiological imaging?
86. What are the real world applications of our project?
87. What is a single page application?
88. What is python?
89. Why are we using python language?
90. What can we do to achieve the goal at individual level?
91. What are the existing policies for conserving the environment in India?
92. Discuss briefly chipko movement in India.
93. Can we use our portal for other natural resources like water spread?
94. What are the basic components in our portal?

95. How can an authority input images in the portal?
96. What will they get as an output?
97. Why are we stating the ratio between forest and desert land in the output image?
98. What are the advantages in learning Machine learning?
99. What is the future of Artificial intelligence?
100. Why are we making an online portal instead of making a hardware model?

26. PORTABLE ECG MACHINE

1. Does the QRS region shown in the EEG graph correspond to any particular full form or is it a general term?
2. How should outliers be handled in single probe EEG?
3. Does individual alpha frequency, obtained from EEG, remains same for an individual over a day?
4. Can copper be used as EEG- (dry) electrode material?
5. Electrodes to measure EEG are where?
6. According to the international 10/20 system to measure EEG, even number denotes which side of the brain?
7. Letter F in the EEG electrode placement system denotes?
8. What is the normal EEG frequency range?
9. The letter T in the EEG electrode placement system denotes?
10. According to the international 10/20 system to measure EEG, odd number denotes which side of the brain?
11. What is the EEG range of delta wave?
12. What kind of disturbances are available in EEG pattern?
13. What is the peak to peak amplitude of waves picked up from the scalp?
14. Which rhythm is the principal component of the EEG that indicates the alertness of the brain?

15. Is it wise to use EEG in order to analyze dynamic functional connectivity states?
16. Which is the best material to build electrodes to perform electrocardiography and electromyography?
17. Why uses of an EEG?
18. Are EEGs safe for children?
19. What are the different types of EEGs?
20. What happens during an EEG?
21. How should a person prepare for an EEG?
22. Electroencephalogram (EEG) rhythm was first recorded by whom?
23. How is information encoded by neurons?
24. Which type of electrodes are employed to study the electrical activities of neural cells?
25. Which of the following metal is preferred for manufacturing EEG core?
26. Generally what is the material of needle electrodes in EEG?
27. Describe the instrument used to hold patients head and guide the placement of electrodes in EEG?
28. The ground electrode in EEG is usually positioned over which body structures?
29. Describe neural-muscular EEG required to look into the electrical activities of deeper or overlaid muscles?
30. In voluntary contraction of the skeletal muscles, the muscle potential ranges are?
31. Differentiate between ECG and EEG.
32. Which of the following is a wireless EEG acquiring system?
33. Before placing the electrodes for EEG the skin should?
34. Why do abnormalities in EEG occur?
35. What is EEG explain in detail?
36. What is the efficiency of the project constructed? How is it different from conventional EEG machines in Hospitals?
37. What is a brain cycle? How is it created and perceived?
38. Is there any similarity in terms of brain node wave recovery while testing EEG?
39. Can damage to neural fiber lead to distortion of brain wave? Can this device connect those distortions?
40. Is there any difference in efficiency of this project to detect brain waves when used in a rough environment?
40. What are the project related UN SDGS? Is it in accordance with the UN healthcare standards?
41. Name and describe the domain of the project.
42. How is this project integrated with real time data? How is the data stored?
43. How is information encoded by neurons?
44. Describe the instrument used to hold patients head and guide the placement of electrodes in EEG?
45. The live electrode in EEG is usually positioned over which body structures?
46. What is wavelength of a wave from the brain?

47. What is the amplitude of brain wave?
48. What does an Amplitude variation in brain waves symbolize?
49. What does different Brain waves depict about our brain?
50. What are the frequency of different Brain waves?
51. What are different types of Brain waves?
52. What is Digital Signal in Matlab processing of brain waves?
53. What is an Analog Signal in Matlab processing of brain waves?
54. Is there any noise present in detection of brain waves? How noise can be reduced?
55. How is noise introduced in this device? What all are the reasons for induction of noise?
56. What is a Voltage regulator and where is it used in EEG machines?
57. What are Microcontrollers and where are they used in EEG machines?
58. Are microprocessors used in the above device? What is the difference between microcontrollers and microprocessors?
59. What is an Arduino Uno and where is it employed in the EEG device?
60. Describe the algorithms used to sort EEG waves?
61. Describe the algorithms used to reduce noise from a captured EEG wave?
62. Give examples of passive components used in the EEG machine.
63. Give examples of active components used in the EEG machine.
64. What is cut of frequency of a filter used in EEG machine?
65. What is a non-inverting terminal and where can such a terminal be found in EEG devices?
66. What is an Op-Amp and where is it used in the EEG machine?
67. What are the minimum number of Op-Amps that can be used to implement this project model?
68. What are the minimum number of Electrodes used to implement this project?
69. What is an Active Low Pass Filter and what are its uses in EEG machine?
70. Which frequency is cutoff by the Active Low Pass Filter employed in this device?
71. What is an Active High Pass Filter and what are its uses in EEG machine?
72. Which frequency is cutoff by the Active High Pass Filter employed in this device?
73. What is a Notch Filter and where is it employed in EEG machine?
74. Which unaltered frequencies from the brain waves are removed by Notch Filter?
75. What is the use of Instrumentational Amplifier in brain wave detection?
76. What is gain of Instrumentational Amplifier used in brain wave detection?
77. Describe the various parameters and ratings of resistances and capacitances used in EEG detection.

78. Is there any variation in the ionic current from brain? If yes, then how does it affect the EEG signals?
79. What is millisecond-range temporal resolution? How does it make EEG different from CT, PET or MRI?
80. Can brain death and sleep be detected by EEG? What is the difference in EEG signals in both conditions?
81. What is evoked potential derivative of EEG?
82. What are neural oscillations how are they different from brain waves?
83. Can anything be concluded from spectral content of EEG? What are the significance of various EEG spectral lines?
84. What is EEG topography? When and by whom was this study developed?
85. Where is EEG used in practical diagnoses?
86. Why are liquid helium cooled detectors used in practical EEG machines?
87. Which other neuroimaging techniques use EEG?
88. What is MEG and how it is different from EEG?
89. What are the different montage methods (Referential, Average, and Laplacian) used to interpret brain waves?
90. What is quadruple EEG and what are its disadvantages?
91. Name the different EEG bands (Delta, Alpha, and Beta etc.) and what are their respective frequency ranges?
92. Can EEG bands be used for pathological detections? And how are they used?
93. A technique similar to EEG to detect muscle activity is EMG. Elaborate upon it.
94. Can EEG detect mild and moderate Traumatic brain injuries? Elaborate.
95. Hemoencephalography (HEG) is a system with neuro-feedback. How is it different from EEG elaborate?
96. What is near infrared and passive infrared while detecting EEG?
97. Binaural beats are neurologically like the heart beats for brain. Can the attenuate the EEG output?
98. Can a generalized system be developed for detecting emotions of different humans using brain waves? Elaborate upon such systems.
99. How are electromagnetic pulses from the surrounding electrics nullified in EEG device as it can cause attenuation?
100. If the grounding is ignored in EEG device can it prove to be harmful?

27. FOREST FIRE ANALYSIS USING GIS

1. What is Fire?
2. What is Forest Fire?
3. What is Heat?
4. What is Fuel?
5. What is Air Supply?
6. What are the three components required for fire?
7. Write the types of forest fires?
8. Which part of Uttarakhand most affected by forest fire?
9. What are the causes of forest fire?
10. What are the natural causes of forest fire?
11. What are the anthropogenic causes of forest fire?
12. Which substance is used as fuel in forest fire?
13. Name the components of forest fires?
14. What is Surface fire?
15. What is Underground fire?
16. What is ground fire?
17. What is history of fire?
18. What is fire gas?
19. What is the difference between flame and heat?
20. What is smoke?
21. What is the steps involved in a fire?
22. What is GIS?
23. What is analyse?
24. What is Spatial Data?
25. What do you mean by digitized and scanned map?
26. What is data bases?
27. What is GPS?
28. What is GIS Data Sources?
29. What is location Data?
30. What is scale of Data?
31. What is data presentation?
32. What is data visualisation?
33. What is GIS data?
34. What is roaster image grid?
35. What is Vector-grids?
36. What is the use of texture?
37. Where does texture work?
38. How does texture work?
39. How do we use texture?
40. Where is the value used?
41. How the value work?
42. What is the difference between cool colour and warm colour?
43. Write two names of cool colour and warm colour?
44. Explain the cool colour and warm colour with examples?
45. What is harmony?
46. What is contrast?
47. Differentiate between harmony and contrast?
48. What is texture?
49. What is saturation?
50. What is VIBGYOR?
51. Which colour has highest wavelength?

52. What is value?
53. What is major causes of forest fire in the United State?
54. Under what weather conditions is fire more likely to spread rapidly?
55. Which fire is faster going uphill or downhill?
56. What is leading natural cause of forest fires?
57. What is it called when firefighters remove fuel in a long line ahead of the path of a fire?
58. What do forest fires need in order to burn?
59. What do we call a forest fire that moves quickly by burning across the top of trees?
60. Do all forest fires move slowly and will stop spreading when they reach a river or road?
61. How can human cause a forest fire?
62. How does wildfire start?
63. How do you deal with wild fires?
64. Is fire good for forests and grasslands?
65. Does GIS software is the only one of the components of GIS?
66. What is represented using the vector Data Model?
67. What applications in ArcGIS Desktop is designed for data management?
68. What is Map Projection?
69. What is vector data modal?
70. Which data is deal with GIS?
71. What is meaning of spatial data?
72. What is Mera data?
73. What is key components of spatial data quality?
74. Which is also known as spatial data bases?
75. What is need of spatial analysis?
76. What is related to GIS?
77. What is examples of geographic field?
78. What is examples of continuous fields?
79. What is discrete field?
80. What is nominal data values?
81. What is ordinary data values?
82. What is ratio data values?
83. What is forest risk management?
84. How to calculate forest fire area of Uttarakhand using QGIS?
85. How does work QGIS software?
86. Which does important elements of QGIS SOFTWARE?
87. How many does district of Uttarakhand?
88. Which district is affected by forest fire area?
89. What is aim of GIS software?
90. Which methods is applied in project?
91. What is goal of project?
92. Why is more chances fired in Uttarakhand?
93. Which area is more chances fired in Uttarakhand?
94. What is effect of GIS after that calculating forest fire are using QGIS?
95. What is business purposes of QGIS?
96. Which date is fired in Uttarakhand 2016?
97. Which zone is called as sensitive zone in Uttarakhand?
98. Where will be collected forest fire area data?
99. What is forest?

100. What is implementation of QGIS software?

28. BOOKHUB

1. What is your project name?
2. What is the main purpose of bookhub?
3. What is the main key points of your project?
4. Why you choose bookhub name for your website?
5. What languages you are using?
6. What is frontend?
7. What is backend?
8. What is the full form of html?
9. What is html?
10. What is CSS?
11. What is the full form of css?
12. What is javascript?
13. What is the difference between java and javascript?
14. Who developed javasript?
15. What is backend?
16. What is nodejs?
17. What language you are using for backend in your project?
18. What is the extension of javascript?
19. Which UNSDG goals matches to your project?
20. Which tools are used for designing of website?
21. What is hosting?
22. What is domain?
23. What is the starting range of domain?
24. What is adobe xd?
25. What is an iframe and how it works?
26. Explain Meta tags in HTML?

27. What is the purpose of the alt attribute on images?
28. What is the difference between span and div?
29. How Can I Get Indexed Better by Search Engines?
30. What were some of the key goals and motivations for the HTML5 specification?
31. How can you highlight text in HTML?
32. Briefly describe the correct usage of the following HTML5 semantic elements?
33. What is Character Encoding?
34. What is a self-closing tag?
35. What's the difference between an "attribute" and a "property" in HTML?
36. Explain the difference between block elements and inline elements?
37. What is web sql?
38. What is new in Html5?
39. Can a web page contain multiple header's elements?
40. What is the purpose of main?
41. Why did we use doctype?
42. Does what do doctype?
43. If we forget to write doctype ist okay?
44. What is webp?
45. Could you generate the public key in html?
46. Is html is case sensitive language?
47. What is mean by boiler plate?
48. Write a HTML table tag sequence that outputs the following1?
49. What is the web components?
50. What are web worker?
51. Explain the three main ways to apply css?
52. How to use Variables in Sass?
53. What is difference between classes and ides in css?
54. What is class in css?
55. What is a css rule?
56. Describe float and how it works?
57. Why we use flexbox in css?
58. What is Dom?
59. What is the boiler plate in Css?
60. If justify content is space between what does it do?
61. What is css selector?
62. Name any css selector?
63. How does css work in browser?
64. What is a grid system in css?
65. How would you approx fixing style issue in browser?
66. What does box-sizing and border-box do?
67. What is padding and margin?
68. What is the difference between pixel and %?
69. How do you optimize your webpage for print?
70. What is z-index?
71. How does it work in css?
72. What is type of operator?
73. What is the object type?
74. What is scope in javascript?
75. Explain equality in javascript?
76. Explain values and type in javascript?

77. Explain arrays in js?
78. What is let keyword in js?
79. Explain null and undefined in js?
80. Explain event bubbling and how one, may prevent it?
81. What is the difference between ES5 and ES6 js?
82. What are the two types of API functions in node.js?
83. What is npm?
84. What is global installation of dependencies?
85. List out the difference between angularjs and nodejs?
86. What are the key feature of nodejs?
87. What are Event Listeners?
88. What is an error first callback?
89. What do you mean by asynchronous API?
90. Is node a single threaded application?
91. What is Mysql?
92. How can you unsigned integer in Mysql?
93. Explain foreign key constraint in Mysql?
94. Explain default constraint in Mysql?
95. What is primary key constraint nad unique key?
96. What is a view in Mysql? How can you create and query a view?
97. What is Mysql dump?
98. What is index in Mysql?
99. What is advantage of index?
100. What is the use of IN and BETWEEN in Mysql queries?

29. ORIPANEL

1. What is a solar panel?
2. What are solar cells?
3. What do you mean by solar energy?
4. Why is solar energy known as green source of energy?
5. What are alternate sources of energy?
6. What are conventional sources of energy?
7. What is renewable energy?
8. What are the different types of renewable energy?
9. What is non-renewable energy?
10. What are the different types of non-renewable energy?
11. Explain the title 'ORIPANEL'.
12. What is Origami?
13. What is the aim of the project?
14. How is the model innovative?
15. How is the new model better than the existing one?
16. What are the applications of solar panel?
17. What is the structure of solar panel?
18. What is silicon?
19. Why solar panels are made up of silicon?
20. What is the cost of a solar panel?
21. What is EVA?
22. What is the full form of EVA?
23. Is my roof suitable for solar panels?
24. How much area is required to install solar panels?

25. How is the model cost effective?
26. How is the model more efficient?
27. How does the model work?
28. How much will its maintenance cost?
29. How will you publicize the model?
30. What is the future use of this project?
31. What are the benefits of solar panels?
32. Are solar panels difficult to maintain?
33. When the panels should be replaced?
34. How long is the life of the panels?
35. Is it suitable for all types of climate?
36. Can solar panels work at night?
37. Will the panels work on cloudy/rainy/snowy days?
38. What happens during a power outrage?
39. How do you store electricity for use after the sun goes down?
40. Does solar panel make hot water?
41. Why is shade a problem?
42. How many panels are needed to produce enough electricity to run a house?
43. What is net metering?
44. Are government incentives available to reduce the price?
45. Can the panels withstand high winds and hail?
46. Can solar panels work in a blackout?
47. How do solar panels help in generating electricity in street lights?
48. Is solar energy powerful enough for my home or business?
49. How will the electricity bill be affected on using solar panels?
50. How does solar energy benefit the environment?
51. How can we get electricity from the sun?
52. What is a conductor?
53. What is a semi-conductor?
54. What are different types of semiconductor?
55. What do you mean by band gap?
56. What is the difference between conductors, insulators and semiconductors on the basis of their band gaps?
57. What is a photodiode?
58. What are the principles of a photodiode?
59. What are the different types of solar panels?
60. What happens during the solar power installation process?
61. Which semi-conductor is used in photodiode?
62. What is a diode?
63. What are the different types of diodes?
64. How can you tell how the system is performing?
65. Can you have a solar electric system on your house and still be connected to city power?
66. Why system do fails?
67. What happens when the solar energy generated is more than what we need or if it is less than what we need?
68. Will the mounting of solar panels damage the roof?
69. Will the installation of panels load the roof?

70. Are there any safety standards for solar power plant?
71. Can the panels withstand seismic conditions?
72. What is the difference between solar photovoltaic and solar hot water systems?
73. Will the wind blow the panels off the roof?
74. How long does it take to install the solar?
75. Do you need battery backup for solar panels?
76. How many panels are required for an electric solar panel system?
77. What do you mean by on-grid?
78. What do you mean by off-grid?
79. Do you have to go off the grid when you switch to solar energy?
80. Will switching to solar energy help you budget better?
81. Do you have to rewire the house while installing the panels?
82. Will solar panels raise your home or business' property value?
83. How is this different from rooftop solar?
84. What is Arduino board?
85. What is microcontroller?
86. What is the use of Arduino in our project?
87. Can we control our foldable solar panels with a smartphone?
88. How we will control our project using smartphone?
89. What is Bluetooth?
90. How we will control our project Vis Bluetooth?
91. How we will make app to control our project with smartphone?
92. How we will know what kind of solar panels we have to buy?
93. What is United Nations?
94. What is the full form of SDG?
95. What is the meaning of sustainable development?
96. How many SDG's are there?
97. Why SDG's?
98. What's our project concerned SDG?
99. What is SDG 7?
100. How to become an engineer?

30. HYDROGEN FUEL

1. What is hydrogen?
2. Chemical formula of hydrogen?
3. What is fuel?
4. What are fossil fuels?
5. Fossil fuels develop in how many times?
6. What do fuel cells emit?
7. How do fuel cells develop electricity?
8. When was first fuel cell invented?
9. When were fuel cells first used in space?
10. Globally, how many fuel cells run on road?
11. How, much hydrogen is produced in US every year?
12. Which country has most hydrogen fueling station?
13. How much of the known universe mass is made up of hydrogen?
14. What is the main problem in using hydrogen as fuel?
15. Where do we use hydrogen as a fuel?
16. Is hydrogen a good fuel source?
17. What is the disadvantage of hydrogen?
18. Why are hydrogen fuel cells not widely used?
19. Is hydrogen fuel liquid or gas?
20. Are hydrogen cars better than electric?
21. Is it feasible to use hydrogen fuel for global demand?
22. Which is better; electric cars or hydrogen cars?
23. What are hydrogen fuel cells?
24. Can a normal car engine run on hydrogen?
25. Are hydrogen cars cleaner than electric?
26. How long will a hydrogen fuel cell last?
27. Are hydrogen cars fast?
28. Can hydrogen fuel cells explode?
29. Can salt be used as fuel?
30. Can hydrogen be made from sea water?
31. How do you make pure hydrogen?
32. Can you make hydrogen at home?
33. How dangerous is hydrogen?
34. Does hydrogen pollute the air?
35. Does Tesla use fuel cells?
36. Can we run out of hydrogen?
37. Why are hydrogen cars not popular?
38. Is hydrogen fuel cell the future?
39. How safe are hydrogen cars?
40. What is the biggest advantage of using hydrogen fuel?
41. Is hydrogen fuel cheaper than gasoline?
42. Why is hydrogen expensive?
43. Why is hydrogen so important?
44. Is hydrogen a renewable fuel?
45. What is the cleanest of all fossil fuels?
46. Can hydrogen fuel become reliable renewable energy?
47. Can hydrogen fuel replace fossil fuel in future?
48. How will hydrogen be used in future?
49. What are the fuels of the future?

50. Which element is known as fuel of future?
51. What are the 3 types of fuels?
52. Why is hydrogen a better alternative to carbon-based fuels?
53. Why is hydrogen not used as a domestic fuel?
54. Are hydrogen fuels bad for the environment?
55. Will hydrogen fuels replace batteries?
56. Can I buy a hydrogen powdered car?
57. Can a diesel engine run on hydrogen?
58. Why does diesel engine run away?
59. How much a hydrogen power car does cost?
60. Does Toyota have a hydrogen car?
61. Does Honda have a hydrogen car?
62. How do you fuel a hydrogen car?
63. How dangerous is hydrogen?
64. Can hydrogen kill you?
65. An interesting fact about hydrogen?
66. Does human body need hydrogen?
67. What percent of human body is hydrogen?
68. What is the color of hydrogen gas?
69. How did hydrogen get its name?
70. Will we ever run out of hydrogen?
71. Can hydrogen exist as a single atom?
72. Any 5 physical properties of hydrogen?
73. What is the scientific name of hydrogen?
74. Another name of hydrogen?
75. Name the harmful gases emitted on burning of fossil fuel?
76. Is CO and CO2 same?
77. Name other elements released on burning of engines?
78. Do these elements harm the environment?
79. What is a combustible substance?
80. What is non-combustible substance?
81. Is hydrogen fuel combustible?
82. Where can we store hydrogen fuel?
83. Can hydrogen fuel be stored along with water?
84. Can hydrogen fuel be injected along with fossil fuels?
85. What is global warming?
86. What is ozone?
87. Chemical formulae of ozone?
88. What is atmosphere?
89. What are the 4 layers of atmosphere?
90. In which layer is ozone found?
91. What is greenhouse effect?
92. Do hydrogen fuels promote global warming?
93. Is our project cost efficient?
94. How does your project protect the environment?
95. Are hydrogen fuels being in use in developing countries?
96. What is hydrolysis?
97. What are hydrocarbons?
98. Can hydrogen fuels be implanted in old engines?
99. Does it burn the engine partially?
100. Does combustion of hydrogen fuel release any hydrocarbon?

31. SMART HACKER

1. What Is IOT?
2. What is the full form of iot?
3. Why we need iot?
4. What is the importance of iot?
5. What are the advantages of iot?
6. How iot can help us to solve the future problems?
7. What are features of iot?
8. Give the example of impact of iot on our lives?
9. What are the important components of an iot?
10. What are the main challenges of an iot?
11. What impact will the iot have?
12. How iot can help in health sector?
13. What is ardunio?
14. Which type of ardunio we are using in this Project?
15. Who is the developer of arduino?
16. Why we should use arduino?
17. What are the advantages of ardunio?
18. What do you mean by open source? Hardware?
19. Can I use an arduino board without th
21. What is ultrasonic sensor?
22. How does an ultrasonic sensor work?
23. When would I use an ultrasonic sensor?
24. How does ultrasonic sensor deal with noise?
25. What environmental conditions affect an Ultrasonic sensor?
26. Is ultrasonic sensor slower than photoelectric Sensor?
27. What can an ultrasonic sensor detect?
28. Can ultrasonic sensor detect human?
29. What is the range of ultrasonic sensor?
30. Is ultrasonic sensor analog or digital?
31. Who invented ultrasonic sensor?
32. Which sensor is used to measure distance?
33. What is IR sensor?
34. How IR senor works?
35. Can or sensors see through dust and smoke?
36. What is the smallest target IR sensor can measure?
37. How does distance to target affect the IR Sensor?
38. Can an IR be overcooled?
39. What is the range of IR sensor?
40. What does an IR sensor do?
41. How do IR sensor detect obstacles?
42. Can IR sensor measure distance?
43. How do you test an infrared sensor?
44. What is cloud computing?
45. What is cloud?
46. What is software?
47. What is hardware?
48. What is microcontroller?
49. What is ide?
50. How cloud computing works?
51. What is the name of our project?
52. What is the full form of SAPASS?
53. Why we required this device?
54. What is the working principle of our project?
55. What are three steps of our project?

56. What is authentication?
57. How does authentication module works in our Project?
58. How accident detection system works?
59. How post-accident module work?
60. What is GPS module?
61. How GPS module works?
62. What is GSM?
63. How GSM module works?
64. Why we used GSM module?
65. What is imei in GSM technology?
66. How our project works explain?
67. What is the hardware used in authentication System?
68. What is the software used in authentication System?
69. How our post-accident system works?
70. What are the features of our project?
71. How our system can implement in future?
72. How our system can reduce the accidents?
73. What technology is used in our project?
74. Why we used us sensor in our project.
75. Why we use biometrics in authentication System?
76. What is our rto server?
77. How the digital document can reduce the Paper work?
78. How this module can help to find the stolen Vehicle?
79. How our modules protect vehicles?
80. Working of ultrasonic sensor work on this Project?
81. What is red zone?
82. What is green zone?
83. What is warning zone?
84. What is light red zone?
85. Explain the working of red zone and its effect?
86. Explain the working of green zone and its Effect?
87. Explain the working of warning zone and its Effect?
88. How servo motor will work in our project?
89. What is servo motor?
90. What is crash sensor?
91. How our post-accident system will work after The accident?
92. How our whole system will work?
94. What are future development goal of our Project?
95. How it can be accessible for all class of Society?
96. How our project is environment friendly?
97. How our device is better than options Available in market?
98. How is it user friendly?
99. What is the energy consumption required for Our device?
100. How is it different from other?

32. Solar Power Forest Fire Detector

1. What is forest fire?
2. How forest fire is hazardous for all of us?
3. What are the causes of forest fire?
4. What are the benefits of forest?
5. What are effects of forest fire on forest life?
6. What are effects of forest fire on human?
7. What is solar power?
8. What is solar cells?
9. What is solar panel?
10. Difference between solar panel and solar cell?
11. What is the definition of solar energy?
12. Why solar energy is modern energy?
13. How is beneficial for us?
14. Advantage of solar energy?
15. Disadvantage of solar energy?
16. How we convert solar energy into the electrical energy?
17. How solar plate work?
18. Advantages of using solar panel?
19. What is electric energy?
20. Difference between solar energy and electric energy?
21. What is our project?
22. Why we choose this project?
23. What is the benefit of our project?
24. What is the cost of our project?
25. How our project is useful?
26. What is circuit?
27. Define sensor?
28. Types of sensors?
29. On which principle sensor's works?
30. What is smoke sensor?
31. What is features of smoke sensor?
32. How smoke sensor work?
33. What is commercial name of smoke sensor?
34. What is temperature sensor?
35. What is features of temperature sensor?
36. How temperature work?
37. What is commercial name of temperature sensor?
38. What types of gases smoke sensor sense?
39. What is microcontroller?
40. Types of microcontroller?
41. What is Arduino?
42. How Arduino works?
43. Properties of Arduino?
44. What is Arduino uno?

45. What is the price of Arduino uno?
46. What is pin configuration of Arduino uno?
47. What is IC?
48. What is blynk cloud?
49. How we use blynk cloud?
50. What is cloud technology?
51. What are benefits of cloud technology?
52. How cloud technology works?
53. What are advantage of cloud technology?
54. What are the examples of cloud?
55. How many types of cloud technology?
56. Why we use cloud in our project?
57. Define NodeMCU?
58. How NodeMCU works?
59. Specifications of NodeMCU?
60. What is pin configuration of NodeMCU?
61. How many analog pins in NodeMCU?
62. How many types of pins are in NodeMCU?
63. Difference between Arduino and NodeMCU?
64. Why we prefer NodeMCU rather than Arduino?
65. How we connect two sensors in NodeMCU?
66. What is multiplexer?
67. How many analog pins available in multiplexer?
68. What is relay?
69. What is basic principle of relay?
70. How relay works?
71. What are jumping wires?
72. Types of jumping wires?
73. What are male to male wires?
74. What are female to female wires?
75. What are male to female wires?
76. Which software we use for programming?
77. What is full form of Arduino IDE?
78. What is Arduino IDE?
79. Why we use Arduino IDE?
80. Which language we use in Arduino IDE?
81. Define some properties of C and C++?
82. How we install Arduino IDE?
83. How we install esp8266 library in Arduino IDE?
84. What is IOT technology?
85. What is IOT technology's example?
86. Why we purpose of IOT?
87. What are most use sensors in IOT?
88. What is the impact of IOT in daily life?
89. What are the requirement of IOT?

90. What is the popular IDEs software for IOT?
91. Which organizations are support IOT?
92. What is the major role plays in IOT?
93. What is social impact of our project?
94. What is cost of project?
95. How we implement it in large scale?
96. What are objectives of project?
97. What are the future scopes of project?
98. How we developed this project?
99. What are we learning from this project?
100. What is the conclusion of project?

33. SMART CYBER RAMPART SYSTEM

1. What is Cyber Crime?
2. How many types of cybercrimes are there?
3. What do you mean by Cyber security?
4. What is hacking?
5. Who are hackers?
6. What is network sniffing?
7. What are the elements of cyber security?
8. What are the advantages of cyber security?
9. Define Cryptography?
10. What is a firewall?
11. Explain Trace route?
12. Explain SSL?
13. What do you mean by leakage?
14. What do you mean by data leakage?
15. Explain the brute force attack. How to prevent it?
16. What is port scanning?
17. What is a VPN?
18. What are black hat hackers?
19. What are white hat hackers?
20. What are grey hat hackers?
21. What is the Cyber Rampart System?
22. How will this app work?
23. What are the benefit of this app?
24. How much impact will this app have on Cybercrime?
25. How to use this app?
26. Can there be any harm to the user with this

app?
27. How much help will this app provide?
28. Why did we choose the Smart Cyber Rampart System for the project?
29. What will be the Future of this app?
30. Will this app prove to be harmful for the user's device?
31. What is spamming?
32. What is phishing?
33. What is hacking?
34. What is cyber stalking?
35. What is identity theft?
36. What is child pornography?
37. What is cyber cell?
38. What does a cyber-cell do?
39. Where is cyber cell in India?
40. What is biometric system?
41. Explain WAF?
42. What is SSH?
43. What is black box testing?
44. What is white box testing?
45. Explain some of the common cyber-attack?
46. How to protect email messages?
47. What is impersonation?
48. What is a computer virus?
49. What is ethical hacking?
50. Explain social engineering and its attack?
51. Explain anti-virus sensor system?
52. What are hacking tools?
53. Explain phishing?
54. Define Security Testing?
55. Explain security scanning?
56. Explain security threat?
57. What are physical threats?
58. Define hybrid attacks?
59. What are the types of cyber-attacks?
60. Explain the list of the web based attacks?
61. Explain the list of the cyber attackers?
62. What is coding language?
63. How many types of coding language?
64. Why did we choose python language?
65. What is salting, and why is it used?
66. What is SRM?
67. What is another name for unsolicited E-mail messages?
68. Can police track an IP Address after it has been changed?
69. What is a SID?
70. What is the primary function of a firewall?
71. What is the most secure operating system?
72. What do you do if Spybot will not 'immunize'?
73. What is SAM?
74. What types of IDSS does your organization use?
75. What physical security controls are in place in your organization?
76. Is standalone computer secure?
77. What types of attacks are you seeing?
78. What is security?
79. How are you protecting against Social Engineering and Phishing Attacks?
80. What is Message Control System?

81. What is Network Security?
82. What is the difference between network security and cryptography?
83. What are the three Legs of network security?
84. Explain what are digital signature and smart cards?
85. What are the risks associated with using public Wi-Fi?
86. What is the best antivirus?
87. What is it like to be a hacker/member of a cybercrime organization?
88. What are the important components of an internet of things?
89. What is port scanning?
90. Name the different layers of the OSI model?
91. Explain the difference between asymmetric and symmetric encryption?
92. What is the full form of XSS?
93. What is the importance of DNS monitoring?
94. Define the process of salting. What is the use of salting?
95. How to make the user authentication process more secure?
96. What is data encryption?
97. Why data encryption is important in network security?
98. What is computer crime?
99. What is malicious software?
100. How many cases of cybercrime happen every day?

34. Open Source Ventilator

1. What is respiratory system?
2. How we inhale oxygen?
3. Which gas exhale by human being?
4. What is trachea?
5. What trachea works?
6. How many lungs we have?
7. What is the function of lungs?
8. What is ventilator?
9. Why do we need ventilator?
10. How many types of ventilator we have?
11. Which type of ventilator is highly expensive?
12. Do anyone afford the ventilator?
13. What material is used to making a ventilator?
14. How do ventilator work?
15. Can we fix the ventilator in ambulance?
16. How do oxygen supply to hospital?
17. What cost would hospital pay for oxygen?
18. has open source ventilator prepared in any country?
19. Can we used this for long time?
20. Will there need to be supply power to operate the ventilator?
21. How can we control the level of oxygen according to patient's condition?
22. What is the meaning of open source?
23. How can we supply our project to different locations?
24. Can we make the changes in LCD display?
25. What is arduino?
26 What arduino do?
27. How we insert coding into arduino?

28. What is the function of motor in our project?
29. What is BVM?
30. What will be the cost of BVM?
31. What will be cost of arduino?
32. What are the main parts of respiratory system?
33. What is UN SDG?
34. What is the full form of UN SDG?
35. What can be the cost of open source ventilator?
36. Is our project control by computer?
37. How we provide oxygen to patient?
38. Will our project portable?
39. What is the most common pressure gauge in ventilation system?
40. How do respiratory monitor works?
41. What is sensor?
42. What is the other name of trachea?
43. Will our ventilator effect the vocal cord?
44. What does larynx do?
45. from where you supply oxygen to ventilator?
46. How will your project be cheaper?
47. What types of sensor are we using in our project?
48. What is the role of gear system?
49. Why have you decided to make this project?
50. What is the percentage of acute respiratory presentation require ventilator?
51. What kind of filters we are using in our project?
52. What is the medium through which we supply power to the ventilator?
53. What is Adaptor?
54. What is the working of adaptor?
55. How will your project contribute to the medical society?
56. Why do we inhale only oxygen not nitrogen?
57. Can you filter oxygen out of air?
58. Will your project easily access by doctors?
59. Do we inhale pure oxygen?
60. Why can't we inhale 100% oxygen?
61. Can we get the graph of level of oxygen during providing the ventilation to the patient?
62. What components does we use to measure the pressure of the oxygen?
63. What is the role of voltage regulator?
64. Why do we use oxygen cylinder instead of oxygen filter?
65. Why does the patient need mechanical ventilation while infected by covid-19?
66. What is intubation?
67. What is expected life span of a standard mechanical ventilator?
68. What is the per day expense of mechanical ventilation?
69. What is the full of ARDS?
70. Which arduino we use in our project?
71. Is this safe for patient?
72. Can we use our project for infant?
73. Can we removed BVM if manual intervention required?
74. Which kind of battery will use for back up?
75. What arduino will control in open source ventilator?
76. How will we operate our project?
77. What is the difference between ventilator or ventilation>
78. How much will be the expected cost of our project?
79. How can we sell it?
80. What is the use of respiratory monitor?
81. What is our mission to develop open source ventilator?
82. What challenges we have to face if any part of our ventilator get damage?

83. What is the meaning hardware and software?
84. Is our project hardware or software?
85. Which technology we are using to operate the ventilator?
86. Is it easy to find all the necessary component to execute our project?
87. Will patient be safe while using OSV?
88. Why do we select to make OSV rather than to find something else?
89. How medical field has been facing the problem?
90. Who will supervise OSV?
91. What is the capability of motor?
92. Can we change the programme in arduino?
93. Do we have air filtration?
94. Is this use for long period of time?
95. Is OSV prepared by other country too?
96. Can anyone afford it?
97. How much area will cover by OSV?
98. What is the limitations of your project?
99. What are the applications of our project?
100. What are the advantages of our project?

35. Conversion of CO2 into electricity

1. What do you mean by "carbon capture technology"?
2. Why we use Magnesium powder?
3. What is the use of co_2 scrubber?
4. What do you mean by carbon emission?
5. What are the natural sources of co_2?
6. Why we use co_2 in our project?
7. At what amount magnesium power used in reaction tank at one time?
8. How does turbine work?
9. How does co_2 scrubber works in filtration of co_2?
10. What is the goal of this project?
11. What types of reaction takes place in reaction chamber?
12. What are the advantages of this project?
13. How does generator work?
14. What are the physical properties of co_2?
15. Which technology is used in this project?
16. Where is steam turbine used?
17. What are the components we used in this project?
18. Can co_2 be converted to something else?
19. Why magnesium is heavier when burned?
20. Is co_2 useful for everything?
21. What is the balanced equation for burning magnesium?
22. What amount of natural gas emits co_2 as compared to coal?
23. What is the biggest source of co_2?
24. Which compounds strongly absorb co_2?
25. What do you mean by electrochemical reaction?

26. What do you mean by exothermic reaction?
27. What is the meaning of reaction chamber?
28. How do you calculate steam turbine efficiency?
29. What are the parts of steam turbine?
30. What is flow chart?
31. What are the human sources of co_2?
32. Why steam turbine rotates faster as compared to water turbine?
33. What are the properties of magnesium oxide (MgO)?
34. What is the full form of UN SDGs?
35. Which UN SDGs addressed your project?
36. What could be the estimated cost of this project?
37. What are the difference between motor and generator?
38. What are the applications of this project?
39. How we convert heat into steam?
40. Why do we used co_2 in fire extinguishers?
41. What do you mean by exhaust gas?
42. What is the use of boiler?
43. What is shape of the blade of the turbine?
44. What do you mean by abundant material?
45. What is the abundancy of the magnesium?
46. What is the nature of magnesium?
47. What do you mean by flammable?
48. How many inlet valve in reaction chamber?
49. How many outlet valve in reaction chamber?
50. What is the percentage of carbon dioxide in the environment?
51. What do you mean by combustion?
52. What do you mean by oxidation?
53. What make this project is cheap?
54. What were the impact of excess co_2 in the atmosphere?
55. What do you mean by efficiency?
56. Why do we need to balance equation?
57. What are the physical properties of magnesium powder?
58. What do you mean by reaction?
59. What do you mean by reactant and product?
60. What do you understand by mechanical energy?
61. What do you understand by electrical energy?
62. What is a scrubber?
63. What do you understand by grid substation?
64. What do you understand by transmission?
65. What do you mean by filtration?
66. What remove co_2 from the atmosphere naturally?
67. What happens if co levels in the blood are too high?
68. What are the main causes of global warming?
69. Is co_2 harmful for human?
70. What percentage of co2 in the atmosphere is natural?
71. Which industry contributes most to global warming?
72. What produces the most co2 in the world?
73. What is the link between co2 and global warming?
74. What is the unit rate of electricity?
75. What is electromagnetic induction?
76. What is the electromagnetic induction used for?

77. What is the working principle of generator?
78. What is the overall cost of the project?
79. What does a steam turbine do?
80. What is the efficiency of steam turbine?
81. Where is a steam turbine used?
82. Why vacuum is required in steam turbine?
83. What is nozzle in steam turbine?
84. Which area is best suitable to establish this power plant?
85. Reaction chamber is made of which material?
86. What is the law of conservation of mass?
87. What are the most power plant?
88. What is magnetic coil?
89. What is solenoid?
90. What is the rating of power?
91. What is the difference between current and induce current?
92. What is the purpose of grid system?
93. What is the difference between transmission and distribution?
94. What energy conversion does take place in a generator when it is in use?
95. What do you mean by dynamic modelling?
96. What do you mean by synthesis reaction?
97. What are the limitation of our project?
98. What is pidgin process?
99. Why we used co_2 in our project?
100. What are the advantages of steam turbine?

36. WEAR SMART SAFETY

1. What is your Project?
2. How much amount of battery are fully charged by solar panel in your model?
3. What kind of battery is used in your model?
4. In what way it is convenient to wear?
5. What are the multiple use of your helmet?
6. What is implementation regarding IOT?
7. What are the advance technology you implementing in slider mechanism?
8. Which device is used in your module for vehicle detection?
9. How ultrasonic sensor work to give us warning?
10. How much amount of voltage mobile battery required to get charged?
11. How servo motor works in your helmet?
12. How much amount of weight servo motor can bear?
13. How does servo motor get start?
14. How this helmet saves you from accident?
15. How the mechanism will work for seeing on our sides?
16. How your helmet is better than other helmet?
17. What are the materials used for sliding purpose?
18. Which sensor is used for sliding mechanism?
19. What will be the future implementation of your project?
20. What is the cost of your project?
21. What is solar panel?
22. What is solar energy?

23. What is solar cell?
24. Why is solar energy known as green source of energy?
25. What are the applications of solar panel?
26. How long is the life of panel?
27. How do you store electricity for use after the sun goes down (especially at night)?
28. What is buzzer?
29. Which buzzer do you used in your project?
30. How does buzzer make sound?
31. What is inside the buzzer?
32. What are ultrasonic sensors?
33. How does an ultrasonic sensor work?
34. When would I use an ultrasonic sensor?
35. What is the range of ultrasonic sensor?
36. How do ultrasonic sensors deal with noise and interference?
37. What environmental conditions affect an ultrasonic sensor?
38. Is ultrasonic sensor works under the water?
39. Is ultrasonic sensor detecting the light just like sound of an object?
40. What is servo motor?
41. What are types of servo motor in kgs?
42. What can be the maximum angle of servo motor can be move?
43. What are the applications of servo motor?
44. Can be change the angle of rotation in servo motor?
45. How do you control the speed of servo motor?
46. What is the characteristics of servo motor?
47. Which type (in kg) of servo motor are you using in your project?
48. What is node MCU?
49. Is node MCU like arduino board?
50. Is node MCU better than arduino board?
51. Is node MCU have better processor and wifi than arduino?
52. How many type of MCU is?
53. Which type of node MCU are you using in you project?
54. How much minimum volt energy is required for node MCU to do work?
55. What is the use of node MCU in your project?
56. Which driver is use in your node MCU?
57. How you are charging mobile in your helmet?
58. Which module you are using for mobile charging?
59. How much energy is required for charging mobile?
60. From where you are getting energy in your helmet?
61. From which module are you bounding energy?
62. What is the aim of your project?
63. How many devices can we connected with node MCU?
64. Is node MCU is microcontroller?
65. Which module is use for charging mobiles?
66. How you maintain the voltage to give power supply accordingly?
67. What is the material required to reduce the helmet weight?
68. What are the advantages of wearing helmet?
69. Do helmet actually work?

70. How helmet works?
71. Why two-wheeler riders hate helmets and why they should not!?
72. What things to be considered while choosing a helmet?
73. What happens if you don't wear helmet?
74. Many people around the world die in motorcycle collisions. Main reason behind it?
75. Is it certified and checks on safety standards?
76. Does it fit well?
77. Does helmet use save lives or reduce the number of serious head injuries?
78. What kind of protection does a helmet provide?
79. Are helmets supposed to provide protection against all impacts?
80. None of us wear helmets while walking or riding in cars. Is there any good reason to wear them on bicycles?
81. Does helmet use encourage cyclists to behave more recklessly?
82. Is promoting the voluntary use of helmets OK?
83. What standard does my safety helmet meet?
84. Can I paint or put decals on my safety helmet?
85. Is it safe to wear a safety helmet backward?
86. What's the best way to clean and store my safety helmet?
87. How long will my safety helmet last?
88. Are we using the right safety equipment?
89. What is renewable energy?
90. What is non-renewable energy?
91. Which energy is required in your helmet?
92. When should we wear helmet?
93. What is most important in fitting the helmet?
94. When should children begin wearing a bicycle helmet?
95. How long will a child's helmet fit?
96. What can I do to encourage my children to wear a helmet?
97. What is IOT technology?
98. Is your helmet useful in rainy?
99. Is your helmet providing clear vision?
100. Helmet should wear by driver only?

37. VESAFE

1. What is VeSafe?
2. Why this project named as VeSafe?
3. Why we are creating this project?
4. What is Anveshana and who are conducting this contest?
5. Is this Contest conducting by Govt.?
6. Explain different stages of Anveshana 2020?
7. What is the Goal of VeSafe?
8. Is VeSafe is a Robot?
9. Can VeSafe provide medicine to people?
10. Is VeSafe is a Helpline no.?
11. How people call Ambulance from VeSafe?
12. What is the social impact of VeSafe for the people?
13. Is some advertisements need to implement it among people?
14. How Doctors differ in Vesafe from their specialty?
15. Can we use it without internet connection?
16. How we use it in rural areas?
17. What are the devices we need to use it?
18. In future we have customer care services for this project?
19. How much investment we are planning to implement Vesafe?
20. What is cost of hosting Vesafe on Server?
21. What is Website?
22. How much Internet required for setup website?
23. Who will manage data of user in website?
24. What is Symptoms?
25. What is appointment and why we required it?
26. Who will take appointment from the doctor?
27. What happened when doctor not available in particular region?
28. Explain about some specialties of different doctors?
29. How doctor give treatment to Patient by taking appointment from Vesafe?
30. What are the reason of Server down?
31. How payment can be done by VeSafe?
32. Who will manage transaction of user?
33. What is Web server?
34. What is Web Hosting?
35. What is Backend?
36. What is Frontend?
37. What is Payment Gateway and it will work for payment?
38. What is UPI?
39. What is Debit card?
40. What is Credit card?
41. What is the difference between Credit card and Debit card?
42. Explain Markup Language?
43. What is Html?
44. What is Css and how it is useful for designing?
45. What is JavaScript?
46. Explain Health Management?
47. What is Prisciption?
48. Is Vesafe helpful for Tourist?

49. What is Advantage of Check Symptom feature?
50. What is Blood pressure?
51. What is Pulse rate?
52. What is Oxygen level?
53. What is Health Checkup?
54. Explain Term Quarantine?
55. Explain Term Isolation?
56. What is Vaccine?
57. How doctor prescribe medicine?
58. How address of doctor or Hospital can be shown on our website?
59. How much cost patient pay for ambulance?
60. What is ICU?
61. How doctor can do treatment of Covid Patients?
62. What is the medicine of Corona Right now?
63. How much time doctor takes for one patient?
64. What is Chickenpox?
65. Explain different types Cancer?
66. Who is Surgeon?
67. Who is Health Minister?
68. Who is Health Minister in Present Cabinet?
69. How Govt. Schemes helpful for patient?
70. What are the Health Schemes that is beneficial for treatment?
71. What is Aayushmaan Bharat yojna?
72. What is Digital India Mission?
73. Is Vesafe comes under Digital India Mission?
74. How much money is provided under Aayushmaan Bharat Scheme?
75. What is the need of Health Schemes?
76. Is Health really important for our Life?
77. What are the diseases that are caused by Smoking and Drinking?
78. Explain Sentence "Drunk and Drive"?
79. What are the points we remember during driving?
80. How Vesafe can be safe and faster for appointment purposes?
81. Is Vesafe can less rush problem in Hospitals and Clinics?
82. What is Time management and how it is implement in Vesafe?
83. Is Vesafe will manage time properly?
84. What are Benefits for Helpline no. provided in Vesafe?
85. How much time require for creating Website like Vesafe?
86. Is Vesafe provide job offer?
87. What is need of Ambulance?
88. How Students like us can take appointment from Vesafe?
89. If someone takes appointment and next day, he /she wants to cancel it then what will he do?
90. Is our website providing cancellation and refund policy?
91. How much discount Vesafe provide for appointment?
92. How people can be notified for appointments?

93. Will there some people handle money transfer from patient to doctor?
94. What is the earning of Vesafe?
95. Will this project can be implemented on real basis?
96. What is the process of implementing this project on large basis?
97. Will we need money for implement it?
98. Is Vesafe save lives of people?
99. Can this project provide good health?
100. What is Aarogya Setu and how it is differ from Vesafe?

38. AIR FILTER SYSTEM

1. What is air filter?
2. What is use of air filter system?
3. How will air filter change the world?
4. What is the aim of the project?
5. How is the model innovative?
6. How is the new model better than the existing one?
7. What is a UN SDGs?
8. Why UN SDGs is formed?
9. What is a full form of UN SDGs?
10. How many sustainable development goals (SDGs)?
11. Which UN SDGs we are addressing?
12. Why we select goal number 3?
13. What is a sustainable development?
14. What is pollution?
15. How to overcome the air pollution?
16. Which material is used to build air filter?
17. What are the main parts of this air filter?
18. It is portable device?
19. What is exhaust fan?
20. What is a use of exhaust fan in this project?
21. What is a RPM?
22. What is horse power?
23. How exhaust fan helps to create vacuum in box?
24. What is a HEPA filter?
25. What is a full form of HEPA filter?

26. Why we use HEPA filter?
27. What is efficiency?
28. What is an efficiency of HEPA filter?
29. Which material is used to make HEPA filter?
30. What is a working of HEPA filter?
31. Which type of HEPA filter we use?
32. What are the properties of HEPA filter?
33. Why it is only trapped 0.3 micron dust particle?
34. What is micron?
35. Why we use two HEPA filter?
36. What is a granule activated charcoal?
37. How many type of activated carbon?
38. Which type of activated carbon we use?
39. Why we only use granule activated charcoal?
40. What are the properties of granule activated charcoal?
41. How it will help to purify air?
42. What is charcoal?
43. How may type of charcoal available in market?
44. Which grade of charcoal we are using?
45. How charcoal is formed naturally?
46. How will be made activated charcoal?
47. What is a solar panel? What are solar cells?
48. What do you mean by solar energy?
49. Why is solar energy known as green source of energy?
50. What are alternate sources of energy?
51. What are conventional sources of energy?
52. What is renewable energy?
53. What are the different types of renewable energy?
54. What is non-renewable energy?
55. What are the different types of non-renewable energy?
56. What is inverter?
57. Why we use inverter?
58. Which inverter we are using?
59. How long does it take to install the solar?
60. Do you need battery backup for solar panels?
61. How many panels are required for an electric solar panel system?
62. What is a sensor?
63. How sensors work?
64. How many sensors we are using in air filter?
65. Why we use sensors in air filter?
66. What is IOT?
67. Full form of IOT?
68. What is a AQI?
69. Full form of AQI?
70. How we recorded reading of sensors?
71. What is programming?
72. What is a server?
73. How we collect data in server?
74. What is AQI monitoring sensor device?
75. What is a name of input sensor?
76. What is a name of output sensor?
77. Why we are use two sensors on bottom?
78. What is error?

79. How to overcome error?
80. What is calibration?
81. If it is possible to reuse activated charcoal?
82. How we clean the HEPA filter?
83. What is a price of HEPA filter?
84. What is a price of granule activated charcoal?
85. What is a price of IOT device which we use in this project?
86. What is an overall cost of this project?
87. Where we placed this air filter?
88. How we calculate the efficiency of air filter system?
89. Which point we remember while installing air filter?
90. What is cost cutting?
91. How our air filter cost is lower than other market air purifier?
92. Why is the cost too high?
93. How we sell our air filter in market?
94. What are the major problem in this project?
95. What are the advantage?
96. What are the disadvantage?
97. What is zeolite?
98. What is a reason for zeolite is not use?
99. What are the safety majors?
100. How we implement this project in large scale?

39. Power Outage Info Module

1. What is Anveshana 2021?
2. What is the main objective of Anveshana?
3. What is UN SDG?
4. What is the mission statement of UN SDG?
5. What is the full form of SDG?
6. How many SDGs are there?
7. What is the main objective of UN SDGs?
8. Which Goal is being focused by our team, in Anvsehana 2021?
9. What is Goal Number 11?
10. Why do we need to make human settlement Inclusive and sustainable?
11. Which Problem is your team focusing on?
12. How does your problem align with the SDG?
13. What is the current scenario of the Power Outages?
14. What is the difference between Low tension and High tension power transmission?
15. Why do we need to monitor the transformer health?
16. How does this Problem affect us in the daily lifestyle?
17. What is the chain of command when a power outage happens?
18. How many resources are used for the fixing of a power outage?
19. What problems does the control room

face when power outage happens?
20. Currently, how a control room knows when a certain power outage happens in a region?
21. What are the problems which are faced by residents?
22. What is low tension transmission?
23. What is transformer?
24. What does transformer do?
25. Why monitoring a transformer is a challenge?
26. Why power distribution system is not effective in India?
27. What is electrification rate?
28. Why there is more power outages in village than in cities?
29. What is transformer?
30. What is the main function of transformer?
31. How the transformer is responsible for power outage?
32. How does the database will decode the unique code of the message?
33. How many apps will be there?
34. Can we complaint manually also on this app?
35. What if the network connection is not proper in the power outage area? How the agent will know the proper address?
36. How will we know if the agent is dealing with the problem or not?
37. Can we complaint about the street lights malfunctioning also?
38. How the app will figure out who is consumer, agent or the electric department officer?
39. Can we also pay our electricity bill on this app?
40. What if the tools required for repairing is not with the labour?
41. How the messages will get to the person who doesn't have any android mobile?
42. What is relay?
43. Where else relay is used?
44. What does GSM stand for?
45. What is the main function of GSM in this project?
46. What is audrino?
47. What is the function of arduino?
48. Where else arduino is used?
49. What will be the size of this app?
50. Is there any another model of same idea?
51. How many volts are there in low tension transmission?
52. How many volts are there in high tension transmission?
53. How did you get idea for this model?
54. Which states have lowest electrification rate?
55. Which states have highest electrification rate?
56. Which states have very low number of power outages?

57. Which states have high number of power outages?
58. What is the unit of electricity?
59. How many Volts are there in household electricity lines?
60. What is the main function of the Ground wire?
61. What is database?
62. If the electricity is live, what signal will the Module show?
63. If the electricity is Down, What signal will the Module show?
64. What is Chain of Command?
65. What do you mean by Unit ID and Transformer ID?
66. What are the features of Control Room App?
67. What are the features of Customer App?
68. What are the features of fixing team app?
69. How a planned outage will be reported?
70. Will there be any feature which can be used when some accident happens on ground report of the outage?
71. Can a fixing team agent order an Electricity component from the app?
72. Is Hardware module water proof?
73. What material will be used for covering of Module?
74. How POIM will get to know about the power Outage?
75. What is the function of Relay?
76. How less number of power outages will result in high profit to the government?
77. In the Current time, Is there any means of tool which detects the power outage?
78. What is the cost of the module?
79. What are some other SDGs?
80. What's the current status on SDGs in India?
81. What is microprocessor?
82. What are limits of High Voltage transmission?
83. What are the limits of Low Voltage transmission?
84. What do you mean by IOT Devices?
85. Where does IOT devices used?
86. Give some example of IOT device?
87. What are the components of a IoT device?
88. What is three phase and two phase transformer?
89. What are the features of POIM?
90. What do you mean by GPRS?
91. What do you mean by Database?
92. What do you mean by Servers?
93. What are the methodologies?
94. What is the conclusive of the project?
95. How this project will be useful for the consumers?
96. What are the future aspects of the Project?
97. What is the cost of the project?
98. Will there be any chance for project to be more economic?

99. How POIM is different from presently available similar Software?
100. Where will the POIM be fitted in an area?

40. Plastic Constrains by Plastic

1. What is thermo-plastic?
2. What are the types of thermoplastics?
3. Why we use different types of plastics in our daily life?
4. Which plastic is mostly used for packaging of milk?
5. What are thermosetting plastics?
6. What is density?
7. What is the formula of Density?
8. What is the SI unit of Density?
9. What is extrusion process?
10. What are the properties of Plastics?
11. Why we use the process of extrusion?
12. What is extruder machine?
13. What is motor?
14. What are the types of motors?
15. What is the use of motor controller?
16. What is the full form of RPM?
17. What are heater bands?
18. What is the use of heater band in extruder machine?
19. What is thermocouple?
20. Which type of thermocouple is used in Extruder machine?
21. What is the use of screw or Drill bit in extruder machine?
21. Which type of metal is used for making Screw?
22. What are the melting points of different types of Plastic?
23. What is the full form of CAD?

24. What is heat transfer?
25. Which type of heat transfer is used in extruder machine?
26. What is Die? What are the uses of die?
27. What is 3D Printing?
28. Which type of filaments are used for 3D Printing?
29. What is the difference between elasticity and plasticity?
30. What is the difference between AC and DC motors?
31. How plastic effects our atmosphere?
32. How plastic is harmful for humans?
33. What is the full form of P.V.C?
34. What is the full procedure of recycling the plastic?
35. Which type of products can be made by extrusion process?
36. Why plastic take so many years for its decomposition?
37. Which type of alternate material can be used instead of plastic?
38. How are extruded material cooled?
39. What is an example of extrusion?
40. What is the principle of extrusion?
41. What are the advantage of plastic as compared to metals?
42. What are the disadvantages of plastics?
43. How are plastics made?
44. What are polymers?
45. What is the full form of PLA?
46. Why do we need different types of plastics?
47. Are Plastics eco-friendly?
48. How do we judge whether the plastics are eco-friendly in relation to other material?
49. Do Plastics bags block drains during the rainy seasons?
50. Do plastics make up a large part of the municipal solid waste?
51. Are plastic hazardous when buried in landfills?
52. Does the burning of plastics generates toxic fumes or gases?
53. Are plastics harmful to plant growth when buried in land?
54. Should we change over plastics to paper bags?
55. Why we can't use paper for packaging of materials?
56. What is the role of plastic in our daily life?
57. What is additives?
58. What are Binders?
59. Why we need to mix up plastic and additives for making final product?
60. What is the thickness of barrel?
61. Why we cannot use other types of motors in our extruder machine?
62. What is single layer virgin plastic material?
63. What is AC supply?
64. What is DC supply?
65. What is Power?
66. What is watt?
67. What do you mean by Torque?
68. Which type of thermocouple we are using for our machine?

69. What is K type thermocouple?
70. How many degree Celsius can thermocouple measure?
71. What is the function of hopper?
72. What should be the optimum shape for the hopper?
73. What is the Full form of HSS?
74. What is High speed steel?
75. Which identification code is used for polystyrene plastic?
76. What is melting point?
77. What is the melting point of LDPE plastic?
78. What is the melting point of HDPE plastic?
79. What is the melting point of PP plastic?
80. What is solidification process?
81. Which method is used for solidification of Plastic?
82. Which liquid is used for solidification of plastic?
83. What is the full process of plastic recycling?
84. How plastic can reuse?
85. Why we need to reduce plastic usage?
86. Which software is used for making 3D drawings in computer?
87. What is Simulation?
88. Which software is used for Simulation Purpose?
89. Why we use designing software?
90. Which software is used for making android application?
91. What is potentiometer?
92. What are the resistors?
93. What is Diode?
94. Which type of diode is used for switching supply?
95. What is Arduino?
96. What is Microprocessor?
97. What is microcontroller?
98. What is the output voltage of arduino?
97. What is USB?
98. What is the method for checking the battery condition?
99. Which material is used for making processor chips?
100. What is Stepper motor?