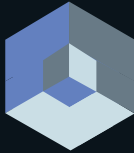




IIT GANDHINAGAR



AMALTHEA '21



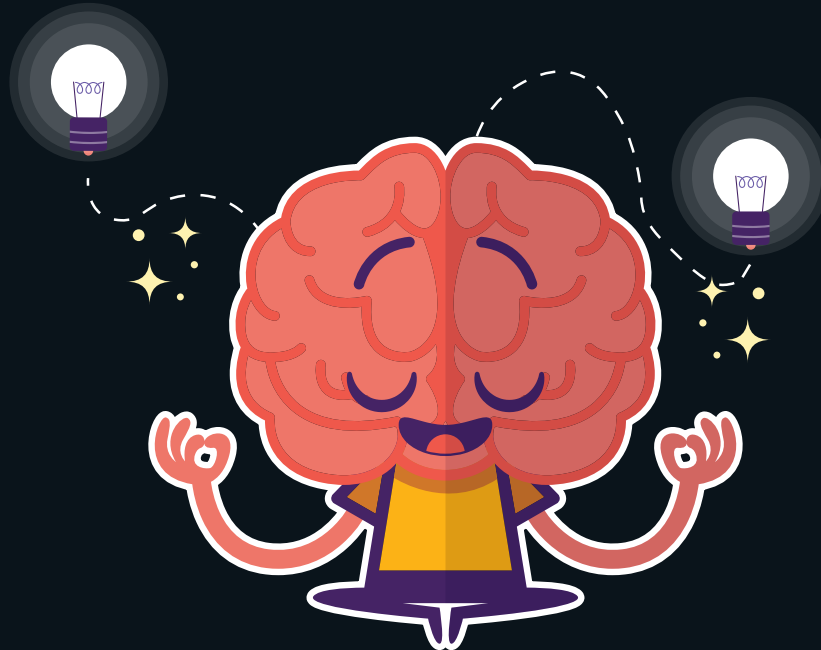
CCL IITGN



BrainWiz



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# BrainWiz

## RULE BOOK

### About The Event:

Here we are! Back to promote our primary aim- Providing a platform to students to showcase their knowledge beyond academics. Brainwiz, an event for the students of class 9th-12th, is one-of-a-kind to motivate, educate, encourage, and reward youngsters in their quest for knowledge and allow them to celebrate their accomplishments.

A big shoutout to all the exemplary students out there! Get ready to witness the biggest opportunity coming your way and register to grab the exciting rewards along with a great learning experience.

### Guidelines for Participation:

1. Eligibility criteria - Std. 9-12 school students only
2. Registration using the [link](#)
3. Mode of Participation - Individual
4. The event will be conducted in online mode

5. All the questions, as well as other instructions, will be in English only

6. Last date for registration - January 22, 2022

## **Event Structure: The event comprises a workshop and two rounds of quizzes**

### **Workshop:**

1. A workshop will be conducted on January 22, 2022 to give the participants insights into the different fields of Engineering.
2. The workshop will guide the students to get clarity on various aspects and possible career opportunities in Engineering.
3. The speakers for the workshop will be prominent Undergraduate and Postgraduate students

### **Quiz:**

#### **Round 1**

1. Round One will be an 'elimination round' aimed at testing the logical and qualitative aptitude of the participants.
2. This round is scheduled for January 23, 2022.
3. There will be a separate round as follows:
  - Junior - Std 9th and 10th
  - Senior - Std 11th and 12th
4. This round will be conducted live on the D2C (Dare2Compete).
5. It will contain 30 questions for each of the sections as mentioned above.
6. The duration of this round will be 1 hour.

#### **Round 2**

1. This round will aim at critical thinking and an exploratory approach towards Science and technology, provoking the students to tinker on real-world problems.
2. This round is scheduled for January 26, 2022.
3. This round will be common for standard 9th to 12th.

4. This round will contain 15 questions.
5. The duration of this round will be 1.5 hour.
6. It will be conducted live on the D2C (Dare2Compete) platform.

### **Prizes and Rewards:**

1. The prize distribution for the top 3 participants is as follows:
  - 1st prize: INR 5,000
  - 2nd prize: INR 3,000
  - 3rd prize: INR 2,000
2. One student, who will perform the best from the Junior section apart from the winners, will be awarded an exciting prize.
3. The top 3 participants will get a chance to visit the IIT Gandhinagar campus and will be felicitated by Amalthea, IIT Gandhinagar.
4. Top 100 participants will get a chance to have live interaction with Prof. Manish Jain, Principal Coordinator of the Center for Creative Learning (CCL), IIT Gandhinagar on January 30, 2022.
5. Top 20 participants will also avail exciting CCL kits as a token of appreciation.
6. All the participants will get a 'Certificate of Participation' from Amalthea, IIT Gandhinagar.

### **Disclaimer:**

1. The decision of the organizers would be final and binding.
2. The organizers of the event hold the authority to change the format of any round during the event.
3. Any changes in the rules will be highlighted on the website and notified to the registered participants.
4. The participants will have to abide by the rules and regulations of the D2C platform.
5. The organizers will not be responsible for any kind of technical issues and their consequences.

6. If any participant is found to be using unfair means, the organizers hold the right to disqualify the participant at any stage of the event.

## Sample Questions:

### Round 1

Imagine there exists a planet, Marco, which is seven light-years away from the earth. From the planet Marco, your friend on his birthday, sends you a message — 'I am ten years old' through a laser-based communication system. Can you find the age of your friend when he sent you the message?

- A) Three years
- B) Ten years
- C) Seventeen years
- D) Twenty Four years

### Round 2

There are 10000 bulbs arranged in a line and marked 1 to 10000. Initially, all the bulbs are switched off. Considering an energy-efficient approach, the series connection is avoided. Each bulb has an individual switch. A person is asked to either switch on or off the bulbs, which are multiples of 1 under the condition that he has to switch off the bulbs that are switched on and vice versa. This setup is given to the 2nd person. The second person is asked to either switch on or off the bulbs which are multiples of 2 under the condition that he has to switch off the bulbs which are switched on and vice versa. Now, this setup is assigned to a 3rd person. The third person is asked to either switch on or off the bulbs which are multiples of 3 under the condition that he has to switch off the bulbs which are switched on and vice versa. The same process continues up to the 10000th person.

Q1. In the end, how many times the switch corresponding to the 10000th bulb has been pressed?

Q2. Can you guess the bulb numbered 6161 and 7000 will be on or off?

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