BrainWiz

CCL IITGN

AMALTHEA '21

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 while also allowing 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 win some exciting rewards along with a great learning experience.

Workshop:

1. A workshop will be conducted on Sunday, Nov 21, to give the participants insights into the different fields of Engineering.

A detailed marking scheme and format of the questions for both rounds will be announced later.

Prizes:

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. The top 3 participants will get a chance to visit the IIT Gandhinagar campus and will be felicitated by Amalthea, IIT Gandhinagar.

3. Top 100 participants will get a chance to have live interaction with Prof. Manish Jain, the Principal Coordinator of Center for Creative Learning (CCL) at IIT Gandhinagar, scheduled on Thursday, Dec 9, 2021.

4. Top 20 participants will also avail exciting CCL kits as a token of appreciation.

5. One student, who will perform the best from the Junior section apart from the winners, will be awarded a separate and exciting prize.

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

Sample Questions:

Here are some sample questions of both rounds:

Round 1

Imagine there exists a planet Marco. Your one friend from Marco sent you one message that is I am ten year old on his birthday through a communication system which is made up of laser light. Marco is seven light year away from earth then when you received a message how old he is?

2. The workshop will help the students to get clarity on various aspects and possible opportunities in Engineering.

3. The speakers for the workshop will be prominent Undergraduate and Postgraduate students.

Participation:

1. Students from classes 9th to 12th can participate in the event.
2. Only single participation is allowed.
3. The event will be conducted in online mode.
4. All the questions, as well as other instructions, will be in English only.

Event Structure:

The event will be conducted in 2 rounds.

Round 1

1. Round 1 will be conducted on Saturday, 4 Dec 2021.

2. This will be an elimination round aimed at testing the logical and qualitative aptitude of the participants.

4. There will be a separate round as follows:
   Junior - Std 9th and 10th
   Senior - Std 11th and 12th

5. This round will be conducted live on the D2C (Dare2Compete).
6. It will contain 30 questions for each of the sections.
7. The duration of this round will be 1 hour.

Round 2

1. Round 2 will be conducted on Sunday, Dec 5, 2021.

2. This round will aim at critical thinking and an exploratory approach towards Science and technology focusing on real world problem solving.

3. This round will be common for classes 9th to 12th.

4. This round will contain 15 questions.

5. The duration of this round will be 1 hour.

6. Round 2 will be conducted live on the D2C (Dare2Compete).

A) Three year
B) Ten year
C) Seventeen year
D) Twenty Four year

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, series connection is avoided. Each bulb has an individual switch. A person is asked to either switch on or off the bulbs which are multiple of 1 under the condition that he has to switch off the bulbs which 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 upto the 10000th person.

Q1. At 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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