

Cerebro 2020

Penumbra

About

● The first round will consist of two modules. In the first module, participants will be provided with a set of pure mathematical problems covering but not limited to-

- Number Theory
- Combinatorics
- Probability
- Geometry
- Discrete mathematics
- Calculus

● In the second module, the questions will test general problem solving, pattern finding skills and finding hidden meanings in images. It will focus on encryption, cyphers, codes, cryptography and image-based problems. Participants will be selected on the basis of accuracy and the time they take to complete the challenge for the second round.

● The second round will consist of rigorous and pure math questions.

Rules and Regulations

- There will be 2 Rounds.
- Participants will be given 1 hour 15 minutes for the first round and 1 hour 30 minutes time for the second round.
- 1st round:
 - 10 Questions (marked) + 1 bonus (unmarked)
 - 1 mark each
- Each question will have a definite answer.
- The correct answer with the **correct explanation** (wherever required) will fetch 1 mark. Kindly do not give vague or incomplete explanations.
- The 11th question in the first round will be a bonus question (this question will not carry any marks, and will not aid in qualifying the first round in any manner). The participant who solves this question completely will win a bonus prize.

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- Top 33% Participants from the first round will qualify to the second round.
- 2nd Round:
 - 5 descriptive Questions
 - 2 marks each
- Plagiarism of any kind will result in disqualification.
- No Smartphones are allowed during the course of the event.
- Any kind of communication with other participants will lead to disqualification.
- In case of conflicts, the decision of the organizers will be final and binding.