



## MATHGEEK

**AIM:**

To evaluate participants' aptitude for strategic risk-taking and their proficiency in making calculated decisions.

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**GENERAL GUIDELINE:**

The main event is divided into 2 sub-rounds: Preliminary and Mains

**ELIGIBILITY:**

- a) Undergraduate and graduate students with a background in mathematics or related field.
- b) It is an individual event. At most two students from each college can participate in the event. ■

**GUIDELINES FOR PRELIMINARY ROUND:**

- a) In this part, there are 10 questions altogether.
- b) There are 5 multiple-choice questions with two marks each and 5 multiple-select questions with four marks each, making a total of 30 marks.
- c) Additionally, there is a penalty of -1 for incorrect multiple-choice answers.
- d) The top 8 students will move on to the next round based on the marks obtained in this round.
- e) Furthermore, the selected 8 students will be ranked as T1, T2, T3, T4, T5, T6, T7, T8. The ranks will be determined by their scores in the prelims, with T1 awarded to the top scorer, T2 to the second top scorer, and so forth.

**RULES FOR PRELIMINARY ROUND:**

- a) There will be a time limit of 40 minutes.
- b) In case of tied scores, a comparison will be made based on the time spent on the exam paper.

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**GUIDELINE FOR MAINS:**

a) The qualified students for this round have to face each other in a one-on-one battle by buzzer round.

**RULES FOR MAINS:**

**Topic 1** **Topic 2** **Topic 3** **Topic 4**

**Topic 5** **Topic 6** **Topic 7** **Topic 8** **Topic 9**

- a) There will be 9 different topics from the field of mathematics.
- b) T1, the top-scoring student, has the first choice among the 9 available topics. After T1 selects its topic, any of the remaining 7 students can challenge T1 through a buzzer round. The first student to press the buzzer will be considered for the challenge.
- c) If T1 chooses Topic 3, both T1 and the challenging team will be asked the same questions from Topic 3. Each team will provide their answers within a 5 minute timeframe. If T1 answers correctly, they will receive 10 points; otherwise, they will face a deduction of 10 points. On the other hand, if the challenging student answers correctly, they will earn 20 points; otherwise, they will face a deduction of 20 points. If a team is unable to answer within the 5 minute limit, the same negative marking rules will apply.
- d) Afterward, "Topic 3" will be eliminated. Now, 8 topics are available for T2 student to choose from. After completing the entire process, the student with the highest marks in the main round will be declared the winner. In case of a tie, a buzzer round with one question will serve as a tiebreaker.

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