

Enumeration 2023

Rules and Regulations

Eligibility

1. The contest is open to school students and undergraduates upto and including the fourth year.
2. Students must possess a valid Institute/School/other ID card as proof of their studentship.
3. Students are allowed to participate irrespective of the academic curriculum they are studying in.
4. Home-schooled students may be allowed to register at the discretion of coordinators.

Registration

1. Students must register for the event in teams of at most two. It suffices if a single student registers for a team of two.
2. Each student must be a part of a single team. In case a student is found to be registered in more than one team, it would lead to immediate disqualification of that individual.
3. It is suggested that teams register themselves only once to avoid duplicate registrations.
4. There is no registration fee.
5. Registrations should be carried out via the Pravega website.

Format and Content

Prelims

1. The contest is hosted on one day, the date and time of which will be posted on the Pravega website ahead of time.
2. The duration of the exam will be of approximately 4 hours (subject to change), with an additional grace hour to account for internet/scanning issues. The prelims will feature both
 - (a) Computational problems which are meant to be answered without proof, as well as
 - (b) Subjective problems, where a complete proof of each claim is required.
3. One may look at the past year papers of the contest to get a general idea of its difficulty. In particular, the computational problems are supposed to be of about **IOQM** standard, while the subjective problems are supposed to be roughly **INMO** standard.
4. The only aids allowed are **writing utensils (pencils, pens, and eraser, including colored pencils and pens), ruler, compass, and paper**. In particular, protractors, calculators, electronic devices of any kind, textbooks, notes, music players, magic crystal balls, etc. are NOT permitted.

As a corollary, **solutions must be handwritten (not typeset)**. If you have some physical handicap that makes handwriting impossible, please contact the organisers for an exception.
5. On the day of the contest, each team will receive a mail, containing the problem set, and a Google forms link for submission. Submissions to computational problems are supposed to be made directly through the form.
6. For each subjective problem, you should submit a **scanned version** of one or more pages consisting of a proof (or attempt at a proof) at the problem.
 - (a) Please write all solutions clearly and legibly.
 - (b) You should submit only pages that you wish to have graded.
 - (c) **Each problem must be submitted as a separate PDF.**
 - (d) The submission should be written in English sentences and read as natural proofs following usual mathematical conventions. Avoid submitting equations with no accompanying explanation, two-column proofs, etc., and write clearly. The graders may deduct points for sufficiently poorly written explanations.

- (e) Passages which should not be graded must be crossed or struck out. This can increase your score as graders may deduct points for false statements.
- (f) Leave a 1-inch margin on all pages.
- (g) Separate problems should be on separate pages.
- (h) There is a suggested limit of 15 pages per problem. (We expect that most solutions will not be anywhere near this limit.) Solutions exceeding this page limit will still be accepted, but they may not be read in entirety.

Finals

1. The top **few** participants from the prelims will be invited to the finals.
2. The finals will be held within the campus of IISc, Bangalore during **first week of November, 2023**, i.e. during the main Pravega.
3. There will be one day of contest of about 4 hours (tentatively). The intended difficulty is roughly **APMO** standard.

Selection Mechanism for finals

1. The top **few** teams based on our ranking mechanism will be invited to the finals. Participants are first ranked based on the total score. Ties are then broken by scores on the subjective section.
2. We first establish an **Computational score cutoff**, which will be announced a few days before the final results are published. **ONLY submissions above or at the cutoff score will have their subjective solutions graded.** In practice, this score cutoff tends to be very lenient as compared to the overall cutoff.

Prizes

1. We award the following three prizes:
 - **1st** prize: INR 15k
 - **2nd** prize: INR 9k
 - **3rd** prize: INR 6k
2. Winners will receive a cash prize and a certificate of appreciation.
3. Finalists will receive a certificate of appreciation.

Miscellaneous

1. The organisers reserve the absolute right to update, amend, modify, delete or create the rules mentioned in this document.
2. In case of any dispute, the decision of the organisers will be final and binding on all parties.
3. Participants are requested not to post the questions on any public forum until a day after the contest.