1. **Participation:**

   (a) Competition is open to students from other academic institutions and local schools, and at most 4 home teams.

   (b) Participation is limited to 4 teams per institute, comprising 2 members each, and will be entertained on a first-come first-serve basis.

   (c) A nominal registration fee of Rs. 100 will be charged from each team.

   (d) All participating students are required to carry proof of official institute/school ID.

2. **Format:**

   (a) For NITJ students, qualifier round to select 4 teams for the Integration Bee will be of the same format as the actual event and will be held on February 26th, 2023.

   (b) The actual event will be conducted on February 27th, 2023 within the institute premises.

   (c) The event consists of a six-round elimination tournament. Competitors face off in pairs, solving integrals at the blackboard.

   (d) Teams from different institutes will be pitched against one another based on a random draw.

   (e) The integrals are projected onto a screen along with a timer. The integrals become more challenging as the contest progresses to higher rounds.

   (f) When a team circles or boxes a solution, the clock is stopped, and the judges consider it.
   - If the solution is correct, the score of the team is incremented.
   - If the solution is incorrect, the clock resumes, and that team can no longer work on the integral, however the other team may do so in the remaining time and present a solution.

   (g) If neither contestant gives a correct solution within the allotted time, both start with a new integral.

   - Round of 32: First-to-one-integral elimination round. Time alloted is 1:30 minutes.
   - Round of 16: First-to-two-integrals elimination round. Time alloted is 2:00 minutes.
   - Quarterfinals: First-to-two-integrals elimination round. Time alloted is 2:30 minutes.
   - Semi-Finals: First-to-two-integrals elimination round. Time alloted is 3:00 minutes.
   - The Final: First-to-three integrals wins the coveted "Le grande Intégrateur" title. Time alloted is 3:00 minutes.

3. Rules are subject to change without notice and may be amended as and when needed and will be notified before or at the competition.

4. In case any ambiguity arises, the decision of the judges will stand final.

Prizes

- First prize: Rs. 2500
- Second prize: Rs. 1500
- Third prize: Rs. 1000
- Participation certificates
- Merit certificates to the finalists, and
- A great learning and networking experience

Sample Questions:

1. $\int \frac{\log(\log(x))}{x \log(x)} dx$

2. $\int e^x \cosh^2(e^x) dx$

3. $\int_1^\infty \frac{\ln x}{x^2} dx$