

Name:

Roll no.:

Tour de OAAR Semester Project Recruitment Test Astronomy Club

Instructions:

1. Write your answers in the blank spaces provided. If you require any rough sheets, contact the invigilators. Attach your rough sheets with the question paper at the end of the test.
2. Show all the calculations neatly and explain your thinking process properly.
3. Use of calculators is allowed; no other electronic device should be used during the test.
4. The total time allotted for this test is 25 minutes.
5. If you have any doubts, ask the invigilators. In case of any discrepancy, the decision of the co-ordinators and project mentors will be final.

Q1. What is the name of the asteroid belt located between Mars and Jupiter?

Ans.

Q2. What is the name of the galaxy cluster that contains the Milky Way?

Ans.

Q3. How many constellations are officially recognized by the International Astronomical Union (IAU)? Write the names of any 8 of them.

Ans.

Q4. How can you find Polaris in the night sky, and what constellation is it located in?

Ans.

Q5. What is a light-year? Calculate the value of a light-year. (Write proper reasoning)

Ans.

Q6. A telescope has a magnification of 200x and an objective lens with a diameter of 250mm. What is the telescope's light-gathering power compared to the human eye (write the approximate value of the ratio)?

Ans.

Q7. Describe in your own words, what you understand from this project's description and what you want to achieve by the end of this project. (4-5 lines max)

Ans.