

## **Instructions to the Contestants**

- (1) The total duration of this examination is five hours.
- (2) This examination consists of
  - Question 1 to 5 - 10 marks each -  $10 \times 5 = 50$  marks
  - Question 6 to 10 - 20 marks each -  $20 \times 5 = 100$  marks
  - Question 11 & 12 - 50 marks each -  $50 \times 2 = 100$  marksTotal = 250 marks
- (3) Inside the envelope you will find
  - a. The question paper in English
  - b. A table of Constants in English
  - c. A set of Summary Answersheets
  - d. A Cover Sheet
- (4) Use only black or blue pen for writing. For figures, you may use pencil.
- (5) There is no negative marking.
- (6) Marks will be deducted if the final answers are given without a detailed solution.
- (7) Marks will be deducted if the final answers have inappropriate numbers of significant figures, no units or wrong units.
- (8) The necessary values of fundamental and astronomical constants should be taken from the Table of Constants provided.
- (9) Instructions regarding using the Answersheets
  - a. For each question a separate Summary Answersheet has been provided. Final answer(s) for each question / part of the question must be written in the corresponding box in the Summary Answersheet. Write your contestant code and a page number on each Summary Answersheet.
  - b. You must also show detailed solutions in the blank space provided on each Summary Answersheet. If necessary, you can ask for extra blank sheets from the invigilators.
  - c. Use separate blank sheets for each question.
  - d. Write your contestant code, question number and a page number on the FRONT side of each blank sheet. Also write your contestant code and a page number on the BACK side of each blank sheet.
  - e. The page numbers should be continuous, i.e., if you use 20 sheets for the entire examination (including the Summary Answersheets), the page numbers should run from 1 to 40.
  - f. Write only inside the boxed area.
  - g. If you do not want the work to be considered for marking, cross that part out.
- (10) At the end of the examination
  - a. On the Cover Sheet, clearly write the page numbers for each question.
  - b. Check that you have written your contestant code on all pages.
  - c. Put the Cover Sheet, all Summary Answersheets, blank sheets and any rough sheets inside the envelope. You may keep the question paper and Table of Constants with you.