

CHENNAI MATHEMATICAL INSTITUTE
Undergraduate Programme in Mathematics and Computer Science/Physics
Common Entrance Examination
1st August 2021

Enter your *Admit Card Number*:

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IMPORTANT INSTRUCTIONS

- **Points: 40 for part A and 60 for part B.** Carefully read the specific instructions given for each part in the question paper.
 - **Part A will be used for screening.** Part B will be graded only if you score a certain minimum in part A. However your individual scores in both parts will be used while making the final decision.
 - **Enter your answers to part A into the computer as instructed.** Each part A question has four statements, of which *at least one* is true. You have to select **exactly** the true option(s) for each question. Deciding the truth/falsity of *all four options* correctly is worth 4 points. Getting *three out of four* correct is worth 1 point. There is no negative marking.
 - **This booklet is ONLY for part B answers and rough work.** For each part B problem, write your solution on the pages designated for that problem in pages numbered 2 to 13. For extra space and rough work, use the blank pages numbered 14 to 26 at the end.
 - **Time allowed: 3 hours.** You are advised to leave about 2 hours for part B.
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For office use only

| | Points | Remarks |
|--------|--------|---------|
| Part A | | |
| Part B | | |
| Total | | |

| | Points | Remarks |
|-------|--------|---------|
| B1 | | |
| B2 | | |
| B3 | | |
| B4 | | |
| B5 | | |
| B6 | | |
| Total | | |

Answers to part B of 2021 Entrance Examination for BSc Programmes at CMI

Carefully read the instructions on the question paper AND on the front of this booklet.

B1. Write your solution to B1 below.

Solution to B1 continued

B2. Write your solution to B2 below.

Solution to B2 continued

B3. Write your solution to B3 below.

Solution to B3 continued

B4. Write your solution to B4 below.

Solution to B4 continued

B5. Write your solution to B5 below.

Solution to B5 continued

B6. Write your solution to B6 below.

Solution to B6 continued.

If necessary, continue solution to any problem on blank pages →

Blank pages for rough work/continuation of part B solutions

For any part B solution continued in these blank pages, label it clearly AND note the page number of the continuation in the main part of the solution.

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