

CHENNAI MATHEMATICAL INSTITUTE
Postgraduate Programme in Physics
PhD Entrance Examination
2nd May 2026

Instructions:

- Enter your *Admit Card Number* here:

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- **Time: 3 hours.**
 - There are two questions each in five subjects: classical mechanics, electromagnetism, statistical physics, quantum mechanics and mathematical methods. Each question is worth 10 marks, for a total of 100 marks.
 - **Four pages have been assigned to each subject. Write your final answers for both problems in the part assigned to the subject.**
 - **Pages 22–28 have been assigned for rough work. Do not put your final answers in these pages.**

For office use onlyClassical Mechanics

No.	Marks	Remarks
1		
2		

Electromagnetism

No.	Marks	Remarks
1		
2		

Statistical Physics

No.	Marks	Remarks
1		
2		

Quantum Mechanics

No.	Marks	Remarks
1		
2		

Mathematical Methods

No.	Marks	Remarks
1		
2		

Total	
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Further remarks:

Fill in the solutions for **classical mechanics** problems.

Classical Mechanics

Fill in the solutions for **classical mechanics** problems.

Fill in the solutions for **classical mechanics** problems.

Fill in the solutions for **classical mechanics** problems.

Fill in the solutions for **electromagnetism** problems.

Electromagnetism

Fill in the solutions for **electromagnetism** problems.

Fill in the solutions for **electromagnetism** problems.

Fill in the solutions for **electromagnetism** problems.

Fill in the solutions for **statistical physics** problems.

Statistical Physics

Fill in the solutions for **statistical physics** problems.

Fill in the solutions for **statistical physics** problems.

Fill in the solutions for **statistical physics** problems.

Fill in the solutions for **quantum mechanics** problems.

Quantum Mechanics

Fill in the solutions for **quantum mechanics** problems.

Fill in the solutions for **quantum mechanics** problems.

Fill in the solutions for **quantum mechanics** problems.

Fill in the solutions for **mathematical methods** problems.

Mathematical Methods

Fill in the solutions for **mathematical methods** problems.

Fill in the solutions for **mathematical methods** problems.

Fill in the solutions for **mathematical methods** problems.

Rough work only. Do not write your final answer here.

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