

Tamil Nadu 2026 Class 12 Part III Science Public Question Paper (Memory Based)

Time Allowed :3 Hour	Maximum Marks :70	Total Questions :21
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General Instructions

- The total duration of the examination is 3 hours (180 minutes).
- Candidates are allotted 15 minutes for reading the question paper and verifying their particulars.
- The maximum marks for the theory paper is 70.
- Check the question paper for fairness of printing. If there is any lack of fairness, inform the Hall Supervisor immediately.
- Use Blue or Black ink to write and underline, and use a pencil for drawing diagrams.
- The question paper consists of four parts (Part I, II, III, and IV).
- Part I is compulsory and contains multiple-choice questions.
- Internal choices and "answer any x out of y" options are provided in Parts II, III, and IV.
- Diagrams should be drawn wherever necessary and labeled neatly.
- Scientific calculators and other electronic gadgets are strictly not allowed.

1. Explain the differences between Mass and Weight.

2. State the laws of Reflection of Sound and its applications like Echo.

3. Differentiate between a Convex lens and a Concave lens with their applications.

4. Describe the mechanism of the Human Eye and how to correct defects like Myopia and Hypermetropia.

5. Define Horse Power, Doppler Effect, and Nuclear Fusion.

6. Explain the differences between Atoms and Molecules.

7. Why is Diamond the hardest allotrope of carbon?

8. State the Law of Conservation of Mass and demonstrate it with a reaction.

9. Describe the process of Photosynthesis and the critical role of Chlorophyll.

10. Why does a mammalian RBC lack a nucleus and cell organelles?

11. What are the functions of Colostrum in infants?

12. Explain the importance of Energy Conservation and list various Biofuels for transportation.

13. What are the objectives of the POCSO Act?
