

UP Board Class 12 Physics Question Paper(Memory Based)

Time Allowed :2 Hour	Maximum Marks :30	Total Questions :16
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General Instructions

Read the following instructions very carefully and strictly follow them:

- Answers to this Paper must be written on the paper provided separately.
- You will not be allowed to write during the first 15 minutes
- This time is to be spent in reading the question paper.
- The time given at the head of this Paper is the time allowed for writing the answers,
- The paper has four Sections.
- Section A is compulsory - All questions in Section A must be answered.
- You must attempt one question from each of the Sections B, C and D and one other question from any Section of your choice.

1. How a galvanometer be converted into an ammeter and a voltmeter? Express by the correct circuit.

2. Explain the construction and working theory of a transformer.

3. What are electromagnetic waves? By drawing its propagation diagram, show the electric field and magnetic field component in it.

4. How is p-n junction diode used as a half-wave rectifier? Explain its working by circuit diagram. Also show input and output waveforms.

5. What is wavefront? Explain refraction of waves by the principle of Huygens secondary wavelets.

6. Establish an expression of relation between resistance of arms of Wheatstone bridge in its equilibrium position with the help of Kirchhoff's law.
