



PHYSICS

BOOKS - VIKRAM PUBLICATION (ANDHRA PUBLICATION)

TELANGANA MARCH-2019

Section A

1. Define Modulation. Why is it necessary ?



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2. What focal length should the reading spectacles have for a person for whom the least distance of vision is 50 cm ? (The distance of Normal vision is 25cm).



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3. State Ampere's Law ?



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4. What direction compass needle points at poles ? Which needle to be used at poles ?



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5. State Gauss Law for Magnetism ?



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6. What are Eddy currents ?



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7. State Lenz's law.



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8. What is the phenomenon involved in the working of transformer ?



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9. Write any one use of infrared Waves. Which animal can detect Infrared Waves ?



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10. What is p-n junction diode ? Define depletion layer.



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Section B

1. Explain the formation of Mirage .



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2. Derive the expression for effective capacitance when 'n' capacitors are connected in series.



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3. A current of 10A passes through two very long wires held parallel to each other and separated by a distance of 1m. What is the force per unit length between them ?



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4. Give two drawbacks of Rutherford Atomic Model. Write two any two postulates of Bohr's Atomic Model.



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5. Explain the working of full wave rectifier with diagram ?



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