

# MODEL QUESTION PAPER – 2

## II P.U.C. PHYSICS (33)

Time: 3 hours 15 min.

Max. Marks: 70

### General instructions:

- a) All parts are compulsory.
- b) Answers without relevant diagram/ figure/circuit wherever necessary will not carry any marks.
- c) Direct answers to the Numerical problems without detailed solutions will not carry any marks.

### PART – A

I. Answer ALL the following questions:

10 × 1 = 10

1. Two point charges are separated by some distance, repel each other with a force  $F$ .  
What will be the force if distance between them is halved?
2. In a Wheat stone's network four resistors with resistances  $P$ ,  $Q$ ,  $R$  and  $S$  are connected in a cyclic order. Write the balancing condition of the network.
3. A current flows in a conductor from west to east. What is the direction of the magnetic field at a point below the conductor?
4. State Gauss law in magnetism.
5. Name the phenomenon in which an emf is induced in a coil due to the change of current in the same coil.
6. What do you mean by dispersion of light?
7. How does the de-Broglie wavelength of a charged particle changes when accelerating potential increases?
8. What is the significance of the negative total energy of an electron orbiting round the nucleus?
9. A radioactive element  ${}_{92}\text{X}^{238}$  emits one  $\alpha$ -particle and one  $\beta^+$  particle in succession.  
What is the mass number of new element formed?
10. What is sky wave propagation?

### PART – B

II. Answer any FIVE of the following questions.

5 × 2 = 10

11. Write any two properties of electric field lines.
12. What are the limitations of ohm's law?
13. Mention the expression for time period of oscillation of small compass needle in a uniform magnetic field. Explain the terms.
14. Give two applications of eddy currents.
15. What is displacement current? Mention its need.
16. Write the two conditions for total internal reflection.
17. Give the circuit symbol and truth table for OR gate.
18. Draw the block diagram of AM receiver.

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**Lingjun Ying**



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