

# 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:

$10 \times 1 = 10$

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  $_{92}X^{232}$  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.

$5 \times 2 = 10$

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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## **Table of Contents 2 Puc Physics Model Question Papers**

1. Understanding the eBook 2 Puc Physics Model Question Papers
  - The Rise of Digital Reading 2 Puc Physics Model Question Papers
  - Advantages of eBooks Over Traditional Books
2. Identifying 2 Puc Physics Model Question Papers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an 2 Puc Physics Model Question Papers
  - User-Friendly Interface
4. Exploring eBook Recommendations from 2 Puc Physics Model Question Papers
  - Personalized Recommendations
  - 2 Puc Physics Model Question Papers User Reviews and Ratings
  - 2 Puc Physics Model Question Papers and Bestseller Lists

5. Accessing 2 Puc Physics Model Question Papers Free and Paid eBooks
  - 2 Puc Physics Model Question Papers Public Domain eBooks
  - 2 Puc Physics Model Question Papers eBook Subscription Services
  - 2 Puc Physics Model Question Papers Budget-Friendly Options
6. Navigating 2 Puc Physics Model Question Papers eBook Formats
  - ePUB, PDF, MOBI, and More
  - 2 Puc Physics Model Question Papers Compatibility with Devices
  - 2 Puc Physics Model Question Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 2 Puc Physics Model Question Papers
  - Highlighting and Note-Taking 2 Puc Physics Model Question Papers
  - Interactive Elements 2 Puc Physics Model Question Papers
8. Staying Engaged with 2 Puc Physics Model Question Papers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 2 Puc Physics Model Question Papers
9. Balancing eBooks and Physical Books 2 Puc Physics Model Question Papers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 2 Puc Physics Model Question Papers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine 2 Puc Physics Model Question Papers
  - Setting Reading Goals 2 Puc Physics Model Question Papers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 2 Puc Physics Model Question Papers
  - Fact-Checking eBook Content of 2 Puc Physics Model Question Papers
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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