

10th Class Physics Guess Paper

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Chapter 10

1. Simple Harmonic Motion and examples
2. Conditions for SHM
3. Damped Oscillations
4. Types of waves and their definitions
5. Longitudinal and transverse wave
6. Compression and rarefaction
7. Crest and trough/ripple tank
8. Stationary waves
9. Exercise questions 1-5 and conceptual questions 1-3

Chapter 11

1. Define sound, pitch, loudness, intensity, and frequency of sound
2. Define echo
3. The mathematical form of speed of sound in different media
4. Factors of loudness
5. Uses of ultrasound in medicine
6. SONAR
7. Effects of noise pollution on health
8. Exercise questions 3, 4, 5, 8, 11, 12, 14-18 and conceptual questions 1, 2, 4, 5

Chapter 12

1. Reflection and its types
2. Critical angle
3. Power of lens and its unit
4. Resolving power and magnifying power
5. Magnification and resolution
6. Concave and convex lense

7. Telescope and its types
8. Uses of lense
9. Total internal reflection
10. Define all laws of reflection
11. Near point and far point
12. Exercise Questions 5, 6, 7 11-14 and conceptual questions 1, 4, 5, 7, 8

Chapter 13

1. Charge and its properties
2. Electric field and its intensity
3. Define capacitor and capacitance
4. Series and parallel combination of capacitors
5. Uses of capacitors
6. Dielectric
7. Columb's law
8. Exercise Questions 11-19 and conceptual questions 1, 3, 6, 7

Chapter 14

1. Definition of Ohm's law
2. Joule and KWH
3. Conventional current
4. Alternating and direct current
5. Circuit breaker
6. Definition of electric Power
7. All exercise questions
8. Conceptual questions 1, 2, 4, 7, 11

Chapter 15

1. Right hand rule
2. DC motor
3. Mutual induction and self induction
4. Define the transformer and step-up and step-down transformer
5. Exercise questions 5-12 and conceptual questions 2, 3, 4, 6, 7

Chapter 16

1. Electronics
2. Thermionic emission
3. Analog electronics
4. All gates (AND, OR, NAND, NOR)
5. Uses of gates
6. Exercise Questions 2, 3, 5, 6, 7

Chapter 17

- All Exercise Questions and conceptual questions

Chapter 18

- Exercise questions 2-12 and conceptual questions 3-8

Important Long Questions

1. Prove that motion of a mass attached to a spring is SHM.
2. Uses of ultrasound
3. Coulumb's law
4. Ohm's Law
5. Joule's Law
6. Simple harmonic motion
7. Construction and working of transformer
8. Working of DC Motor
9. Lenz Law (examination of imf)
10. Working of galvanometer
11. Longitudinal and transverse waves
12. Characteristics of sound
13. Compound microscope
14. Image formation through a convex lens
15. Refractive index and measurement of this index of rectangular glass slab

16. Parallel and series combination of capacitors
17. Factor affecting the resistance
18. Mutual induction
19. NAND and NOR Logic gates with truth tables
20. The fiber optics cable its working and uses
21. write a note on primary and secondary memory
22. Explain Half-Life with an example and diagram.

Important Numericals

1. 10.1, 10.2, 10.4, 10.5, 10.9, 10.10 (Examples 1, 2)
2. 11.2, 11.4, 11.6, 11.9 (examples 1, 2)
3. 12.2, 12.3, 12.4, 12.5, 12.8, 12.9, 12.10, 12.12 (all examples)
4. 13.1, 13.2, 13.3, 13.8, 13.10 (Example 1-4)
5. 14.1, 14.3, 14.4, 14.7, 14.8
6. 15.1, 15.2, 15.3, 15.5
7. 18.1, 18.2, 18.3, 18.4, 18.5 (example 1, 2)