



ADAMJEE COACHING CENTRE

Preparation Paper 2023-24

X - Physics

By: Sir Atiq Ahmed

- Q1. Define transverse wave.
Q2. Write down three differences between transverse and longitudinal waves.
Q3. Write down three characteristics of electromagnetic waves,
Q4. Explain briefly the transmission of radio wave through space.
Q5. Define quality and timbre of sound.
Q6. How is sound produced?
Q7. Define simple harmonic motion and prove that the motion of a simple pendulum is simple harmonic motion.
Q8. Derive the equation for time period of simple pendulum.

$$T = 2\sqrt{\frac{l}{g}}$$

- Q9. Define the following:
i. Time period ii. Frequency iii. Wavelength
- Q10. What is a ripple tank, explain its working.
Q11. Differentiate between refraction and diffraction.
Q12. Explain the working and application of SONAR.
Q13. Explain two use of ultrasound in the medical industry.
Q14. Explain dispersion of light.
Q15. Define irregular reflection of light and also write two points of its importance.
Q16. Write three uses of concave mirror.
- Q17. With the help of ray diagram derive the mirror equation $\frac{1}{f} = \frac{1}{p} + \frac{1}{q}$
- Q18. Draw ray diagram of compound microscope or Astronomical telescope and explain its working.
Q19. Draw the diagram of defects of eye. Describe short sightedness and long sightedness.
Q20. Define the following:
i. Angle of incident ii. Angle of refraction

Adamjee Coaching Physics Notes For Class 10th

Lingsheng Yao



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Adamjee Coaching Physics Notes For Class 10th Book Review: Unveiling the Power of Words

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