

1. Waves transmit _____ from one place to another
- A. energy B. mass
C. both D. none

Answer: Option A

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2. The waves that require a material medium for their propagation are called
- A. matter waves B. electromagnetic waves
C. carrier waves D. mechanical waves

Answer: Option D

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3. The distance between any two consecutive crests or troughs is called
- A. frequency B. period
C. wave length D. phase difference

Answer: Option C

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4. When two identical traveling waves are superimposed, the velocity of the resultant wave
- A. decreases B. increases
C. remains unchanged D. becomes zero

Answer: Option C

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5. In vibrating cord the points where the amplitude is maximum, are called
- A. antinodes B. nodes
C. troughs D. crests

Answer: Option A

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6. The distance between two consecutive nodes is

- A. $\lambda/2$ B. $\lambda/4$
C. ? D. 2λ

Answer: Option A

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7. The distance between consecutive node and antinode is

- A. ? B. $\lambda/2$
C. 2λ D. $\lambda/4$

Answer: Option D

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8. If stretching force T of wire increases, then its frequency

- A. decreases B. increases
C. remains the same D. any of above

Answer: Option B

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9. A stationary wave is set up in the air column of a closed pipe. At the closed end of the pipe

- A. always a node is formed B. always an antinode is formed
C. neither node nor antinode is formed D. sometimes a node and sometimes an antinode is formed

Answer: Option A

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10. It is possible to distinguish between transverse and longitudinal waves from the property of

- A. refraction B. polarization
C. interference D. diffraction

Answer: Option B