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1ST Year Solved Exercise MCQs

NAME:				ROLL NO:		TIME:	15: MIN
SUB:	Physics	Date:				CLASS:	1st Year
SYLLABUS	Chp. 7 (Waves and Vibrations)			T. MARKS	12	OBT. M	

Q. 1 Choose the Correct Answer. Cutting, Erasing, Double Selection is Strictly Prohibited. (1x12=12)

1. The simple wave speed equation is represented by:

(A) V=fλ (B) V = $\frac{s}{t}$ (C) V = rω (D) V = $\frac{\Delta d}{\Delta t}$

2. The principle of superposition in wave is stated as:

(A) The displacement of a wave is the sum of the displacements of its individual components

(B) The velocity of a wave is the product of its individual components

(C) The frequency of a wave is the difference of its individual components

(D) The amplitude of a wave is the ratio of its individual components

3. A node in a stationary wave is:

(A) A point of maximum displacement (B) A point of intermediate displacement

(C) A point of zero displacement (D) A point of infinite displacement

4. An antinode in a stationary wave is:

(A) A point of maximum displacement (B) A point of minimum displacement

(C) A point of zero displacement (D) A point of infinite displacement

5. Stationary waves are defined as:

(A) Waves that move with a constant velocity (B) Waves that move with a change velocity

(C) Waves that oscillate in a fixed position (D) Waves that propagate through a medium

6. Harmonics are

(A) Integer multiples of a fundamental frequency

(B) Integer submultiples of a fundamental frequency

(C) Random frequency

(D) Non-integer multiples of a fundamental frequency

7. The result of constructive interference between waves is represented as:

(A) A decrease in amplitude (B) An increase in amplitude

(C) No change in amplitude (D) A shift in phase

8. If the amplitude of the wave is tripled, then the amount of energy is increase by:

(A) 3 times (B) 6 times (C) 9 times (D) 12 times

9. What type of waves do headphone use to produce sound:

(A) Electromagnetic waves (B) Mechanical waves (C) Pressure waves (D) Longitudinal waves

10. The typical frequency range of microwaves is:

(A) $10^3 - 15^5$ Hz (B) $10^5 - 10^7$ Hz (C) $10^7 - 10^9$ Hz (D) $10^9 - 10^{11}$ Hz

11. The bending of waves around an obstacle is called as:

(A) Refraction (B) Reflection (C) Diffraction (D) Interference

12. The Doppler Effect used in astronomy is for:

(A) Measuring the diameter of stars (B) Determining velocity of galaxies

(C) Analyzing properties of black holes (D) Studying behavior of electromagnetic waves

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Answer Key							
1	A	**2**	A	**3**	C	**4**	A
5	C	**6**	A	**7**	B	**8**	C
9	A	**10**	C	**11**	C	**12**	B