

Inter (Part-I) 2017

Physics	Group-I	PAPER: I
Time: 20 Minutes	(OBJECTIVE TYPE)	Marks: 17

Note: Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.

1-1- The triple point of water is:

- (a) 0 K (b) 100 K
(c) 273.16 K ✓ (d) 373.16 K

2- The time rate of change of angular displacement is called:

- (a) Linear velocity (b) Linear speed
(c) Angular speed (d) Angular velocity ✓

3- The original source of tidal energy is:

- (a) Moon ✓ (b) Earth
(c) Sun (d) Sea

4- 2 radian = ---- :

- (a) 114.6° ✓ (b) 57.3°
(c) 75.3° (d) 37.5°

5- A stationary wave is established in a string which vibrates in four segments at a frequency of 120 Hz. Its fundamental frequency is:

- (a) 15 Hz (b) 30 Hz ✓
(c) 60 Hz (d) 480 Hz

6- If the pressure of the gas is doubled, then the speed of sound:

- (a) Is also doubled (b) Becomes half
(c) Is not affected ✓ (d) Increases by four times

- 7- Venturimeter is a device used to measure:
- (a) Pressure of fluid.
 - (b) Speed of fluid \checkmark
 - (c) Density of fluid
 - (d) Viscosity of fluid
- 8- If $|a + b| = |a - b|$, then angle between \vec{a} and \vec{b} is:
- (a) 0°
 - (b) 45°
 - (c) $90^\circ \checkmark$
 - (d) 180°
- 9- At constant temperature and pressure, if volume of given mass of a gas is doubled, then density of the gas becomes:
- (a) Double
 - (b) $\frac{1}{4}$ of original
 - (c) $\frac{1}{2}$ of original \checkmark
 - (d) Unchanged
- 10- The horizontal range of a projectile at 30° with horizontal is same at an angle:
- (a) 40°
 - (b) 45°
 - (c) 90°
 - (d) $60^\circ \checkmark$
- 11- Newton's rings are formed as a result of:
- (a) Interference \checkmark
 - (b) Dispersion
 - (c) Diffraction
 - (d) Polarization
- 12- The horizontal component of velocity of projectile:
- (a) Increases
 - (b) Decreases
 - (c) Increases or decreases
 - (d) Remains constant \checkmark
- 13- The distance covered during one vibration of an oscillating body in terms of amplitude 'A' is:
- (a) $A/2$
 - (b) A
 - (c) $2A$
 - (d) $4A \checkmark$

- 14- The ratio of moment of inertia of disc and hoop is:
- (a) $\frac{1}{2}$ ✓ (b) $\frac{1}{4}$
(c) $\frac{3}{4}$ (d) $\frac{1}{3}$
- 15- A layer over the central core of the Jacket is called:
- (a) Jacket (b) Plastic
(c) Cladding ✓ (d) Rubber
- 16- To distinguish between transverse and longitudinal wave ---- is used:
- (a) Refraction (b) Interference
(c) Polarization ✓ (d) Diffraction
- 17- 1 tera = :
- (a) 10^{15} (b) 10^{18}
(c) 10^{12} ✓ (d) 10^{-12}

