

Roll No. : _____

Objective

Paper Code

6474

Intermediate Part First

PHYSICS (Objective) GROUP – II

Time: 20 Minutes

Marks: 17



Q.No.1

You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill the relevant circle in front of that question number on computerized answer sheet. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero marks in that question. Attempt as many questions as given in objective type question paper and leave other circles blank.

S.#	Questions	A	B	C	D
1	$C_p - C_v = :$	Plank's constant	Molar gas constant	General gas constant	Boltzmann constant
2	Which remains constant in an adiabatic process:	Volume	Entropy	Pressure	Temperature
3	Least distance of distinct vision for normal eye is:	15 cm	125 cm	25 cm	25 m
4	Fringe spacing increases if we use:	Green light	Red light	Yellow light	Blue light
5	With increase of temperature sound speed:	Remains constant	Increases	Becomes zero	Decreases
6	Half wave length corresponds to:	0°	90°	180°	360°
7	The wave form of SHM is:	A square wave	Sine wave	Cosine wave	Tangent wave
8	SI units of viscosity are:	$\text{kg}^{-1} \text{ms}^{-1}$	$\text{kg}^{-1} \text{m}^{-1} \text{s}$	$\text{kg m}^{-1} \text{s}^{-1}$	kg ms^{-1}
9	Centripetal force performs:	Minimum work	Maximum work	No work	Negative work
10	Which quantity is dimension less?	Centripetal force	Angular velocity	Angular displacement	Angular acceleration
11	Which is non-conservative force?	Electrical force	Gravitational force	Frictional force	Magnetic force
12	SI unit of impulse is equivalent to that of:	Force	Velocity	Momentum	Acceleration
13	Which formula is true?	$m = \frac{a}{F}$	$F = \frac{m}{a}$	$a = \frac{F}{m}$	$a = \frac{m}{F}$
14	Magnitudes of cross product and dot product of two vectors are equal. The angle between the vectors is:	0°	45°	180°	60°
15	First condition of equilibrium implies that:	$\Sigma F = 0$	$\Sigma F_x = 0$	$\Sigma F_y = 0$	$\Sigma F_x = \Sigma F_y$
16	Significant figures in $8.70 \times 10^4 \text{ kg}$ are:	5	4	3	2
17	A light year is the distance light travels in one year. How many meters are there in one light year?	$9.5 \times 10^{-15} \text{ m}$	$9.5 \times 10^{15} \text{ km}$	$9.5 \times 10^{15} \text{ cm}$	$9.5 \times 10^{15} \text{ m}$

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