



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	Magnification of convex lens is:	$1 + \frac{d}{f}$	$1 + \frac{d}{f}$	$1 + \frac{f}{d}$	$1 + \frac{f}{d}$
2	According to Charles Law which relation is correct:	$v \propto T$	$v \propto \frac{1}{n}$	$p \propto \frac{1}{n}$	$p \propto \frac{1}{v}$
3	Which force is non-conservative?	Electric force	Magnetic force	Nuclear force	Gravitational force
4	Significant figures in 0.00567:	2	3	4	5
5	Pressure of gas is given as:	$\frac{2}{3} \rho < v^2 >$	$\frac{1}{3} \rho < v^2 >$	$\frac{3}{2} \rho < v^2 >$	$\rho < v^2 >$
6	The self cross product of vector $\vec{B}$ is:	Zero	1	A^2	AB
7	The distance covered by free falling in 4s is:	19.6m	39.2m	78.4m	4.9m
8	The angle 2π rad is equal to:	0°	180°	90°	360°
9	The angle $\theta = \omega t$ specify:	Critical angle	Solid angle	Phase angle	Plane angle
10	One giga is equal to:	10^9	10^6	10^{-7}	10^3
11	Magnitude of unit vector $\hat{i} \times \hat{j}$ is:	$\hat{k}$	-1	$-\hat{j}$	1
12	The value of 'g' at the center of earth is:	Infinite	2g	3g	Zero
13	Pull of the earth on 20kg body on surface of earth is:	20N	196N	19.6N	1960N
14	The unit of viscosity in S.I. is:	$\text{Kg}^{-1} \text{ms}^{-2}$	$\text{Kgm}^{-1} \text{s}^{-1}$	$\text{Kg}^{-1} \text{m}^{-2} \text{s}$	Kgms^{-1}
15	Energy stored in spring is:	Elastic P.E.	Gravitational P.E.	K.E.	Chemical P.E.
16	Sound travel faster in:	CO_2	H_2	O_2	He
17	The wavelength of x-ray is of the order:	10m	10^{-10}m	10^{-2}m	10cm