

Physics

HSSC (11th) 2nd Annual 2022

Time : 20 Minutes

Paper : I

Objective – (iv)

Marks : 17

(To be filled in by the candidate)

Roll No.

Paper Code 6 4 7 7

Note: - You have four choices for each objective type question as A, B, C and D. The choice which you think is correct; fill that circle in front of that question number in your answer book. Use marker or pen to fill the circles. Cutting or filling up two or more circles will result no mark.

SECTION-A

Q.1	Questions	A	B	C	D
1.	Pull of earth on mass of 20 kg on the surface of the earth is:	20 N	(196 N)	19.6 N	1960 N
2.	Orbital radius of geostationary satellite from the earth surface is:	(3.23×10^4 km)	(5.24×10^4 km)	(4.23×10^4 km)	(223×10^2 km)
3.	Pressure will be low where speed of fluid is:	Zero	(High)	Low	Constant
4.	System international was established in:	(1960)	1950	1970	1940
5.	SI unit of coefficient of viscosity is:	$\text{Kg m}^{-2} \text{S}^{-1}$	($\text{Kg m}^{-1} \text{S}^{-1}$)	$\text{Kg m}^{-1} \text{S}^{-2}$	Kg m S
6.	Name the quantity which is vector:	Density	Power	Charge	(Momentum)
7.	At what angle components of a vector have the same magnitude?	0°	30°	(45°)	90°
8.	Speed of sound in gas is:	$\frac{\gamma p}{\rho}$	$\frac{\rho p}{\gamma}$	($\frac{\gamma p}{\rho}$)	$\sqrt{\frac{p}{\gamma \rho}}$
9.	If 5000 lines per centimeter are ruled on diffraction grating the slit spacing will be:	$5 \times 10^{-3} \text{A}^\circ$	$2 \times 10^{-4} \text{A}^\circ$	($2 \times 10^4 \text{A}^\circ$)	0.02 m
10.	How many types of optical fibre are in use?	Two	Four	(Three)	Five
11.	All real heat engines are less efficient than Carnot engine due to:	(Working substance)	Temperature of reservoirs	Temperature of cold reservoir	(Friction)
12.	Isothermal process is a process which is carried out at constant:	Volume	Pressure	Energy	(Temperature)
13.	Dimensions of spring constant are:	$[\text{MLT}^{-2}]$	($[\text{MT}^{-2}]$)	$[\text{MLT}^{-1}]$	$[\text{MLT}^{-1}]$
14.	In standing waves if $\lambda = \ell$ (length of the string) then 100 P_s will be:	(1)	(2)	(4)	(3)
15.	Dimensions of acceleration are:	$[\text{LT}^{-1}]$	$[\text{LT}^{-1}]$	($[\text{LT}^{-2}]$)	$[\text{L}^{-1} \text{T}^{-2}]$
16.	Velocity of projectile at maximum height is:	$V_i \sin \theta$	($V_i \cos \theta$)	Maximum	Zero
17.	If speed of moving body is doubled, its kinetic energy is:	Doubled	Halved	Unchanged	(4 times)

209-322-2A-350

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CANCELLED