Roll No

## HSSC-(P-I)-A/2024 (For All Sessions)

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Paper Code	6	4	7	5	

: 17

P	iysics	(Objective)		(	Grou	ip-i)	l'ime: 20	Minutes Marks	: 17
Note	: Write Answers	to the Questions on	the obje	ective answer sheet provi	ded. Fo	our possible answers A, E of each question with Mar	B, C and D to ker or Pen in	o each question are given. k on the answer sheet prov	Which
1.1				en the speed of soun		•			
	(A)	Decrease	(B)	Increase	(C)	Remain same	(D)	Be Zero	
2.		e between first and	d third o	crest in transverse wa	ve is:				
	(A)	2λ	(B)	32	(C)	4λ	(D)	8λ	
3.		and light rays are a		/-		1	of the same of the	The state of the s	
	(A)	Parallel	(B)	Perpendicular	(C)	Antiparallel	(D)	At 120°	
4.	The advanta	age of graded inde	x fibre	over the step index fit	re is d	ue to no :	1	In the state of	
	(A)	Refraction	(B)	Dispersion	(C)	Multiple reflection	(D)	Scattering -	
5.	In the gas e	quation $Pv = RT$	, where	v represents volume	of;	The state of the s	1	1 1 1	
	(A)	1 g of gas	(B)	1 mole of gas	/(C)	1 liter of gas	(D)	Any mass of gas	
6.	If $T_1 > T_2$ to	hen $\frac{Q}{T_2} - \frac{Q}{T_1}$ is alv	vays:	print.	The section of	The First	1		
	(A)	Zero	(B)	Infinity	(C)	Negative	(D)	Positive	
7.	The dimensi	ion of $\sqrt{\frac{f \times l}{m}}$ is		and the same of th	1				
	(A)	$[LT^{-3}]$	(B)	$[LT^{-2}]$	(C)	[MLT-1]	/ (D)	$[LT^{-1}]$	
8.	The least co	unt of a balance A	is10kç	, of $B$ is 1 kg, of $C$ is	0.1 kg	and of D is 0.01kg, w	hich is mos	st precise:	
	(A)	/A	(B)	B	(C)	C	(D)	D	
9.	î×(ĵ+k) i	s equal to:		The second	, /				
	(A)	1	(B)	7	(C)	) - k	(D)	k-ĵ	
10.	$\vec{A} = 5\hat{i} +$	7ĵ -3k̂ and B̈̀	≠ 2î ·	+ 2j - ak are per	pend	licular vectors, t	he value	of 'a' is:	
	(A)	-2	(B)	8	(C)	-7	(D)	-8	
11.		oving with uniform	velocit	, its acceleration will	be:				
	(A)	Variable	(B)	Zero	(C)	Uniform	(D)	Positive	
12.		following can be	determi	ined by finding the slo	pe of t	he tangent of the velo	city time gra	aph at a point is:	
		Acceleration	(B)	Momentum	(C)	Displacement	(D)	Average velocity	
13.	The work do	ne in taking a bod	y from t	the floor to the table to	op dep	ends on:			
	(A) TI	he path taken	(B)	Height of the table	(C)	Speed of the particl	e (D)	Time taken for work	
14.	" $mr\omega^2$ " is	an expression for	:						
	(A) Gra	avitational force	(B)	Centripetal force	(C)	Newton's force	(D)	Apparent force	
15.	The rate of o	hange of angular	momen	tum is:					

(B)

Force

(A)

Zero (D) (C)

Pressure

(D)

Density

A body performing SHM, the distance covered by body in complete vibration is 20 cm. its amplitude will be: 17.

Torque

40 cm (D) 20 cm 10 cm (C) (B) 5 cm (A) 833-11-A

(C)