Physics (Objective Type) Time: 20 Minutes

Group-II

Marks:17

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. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question. Attempt as many questions as given in objective type question paper and leave others blank.

1.	1.	M'	$\left[M^{o}LT^{-2}\right]$ are the dimensions of:						
		(A)	Force	(B)	Velocity	(C)	Pressure	(D)	Acceleration
	2.	The number 0.00320 can be expressed in scientific notation as:							
					3.20 x 10 ⁻⁴		3.20 x 10 ⁻³	(D)	3.20×10^3
	3.		\hat{j}). \hat{k} is equal to:			` `			
		1	•			400	* •	(D)	ŵ
		(A)		(B)		(C)	ı	(D)	Λ .
	4.		Cross product of two antiparallel vectors \overrightarrow{A} and \overrightarrow{B} is: (A) $AB \cos \theta$ (B) AB (C) 0 (D) -AB						
		(A)	$AB\cos\theta$	(B)	AB	(C)	0	(D)	-AB
	5.	The	quantity impulse has t	he sai	me units as that of:				
		(A)	Force	(B)	Momentum	(C)	Power	(D)	Work done
	6.	The	speed of the gases ejec	cted b	y a typical rocket is:				
		(A)	3900 m/s	(B)	4100 m/s	(C)	4000 m/s	(D)	4200 m/s
	7.	Whi	ch force is non - conse	ervati	ve force?				
		(A)	Gravitational	(B)	Frictional	(C)	Electric	(D)	Magnetic
	8.	Vent	turi meter is a device u	sed to	o measure:				
		(A)	Pressure of fluid	(B)	speed of fluid	(C)	Density of fluid	(D)	Viscosity of fluid
	9.		lian is equal to:						
			45°	(B)	60°	(C)	57.3°	(D)	73.3°
	10.). If moment of inertia of a body becomes double, then angular momentum becomes:							
			One half		Doubled		Three times		Four times
	11.	The product of frequency (f) and time period (T) is equal to:							
		(A)			0.5	(C)		(D)	1
	12.	- 10°	gan pipe is open at bot						
				(B)	2			(D)	4v
		(A)	21	(B)	1	(C)	$\overline{4l}$	(D)	1
	13.	The s	speed of sound in air is	332	m/s at Oco. Its speed	at 2C°	is:		
			331.22 m/s		332.22 m/s		333.22 m/s	(D)	332 m/s
	14	•	urful pattern produced			to	of light:		
			dispersion		polarization		diffraction	(D)	interference
,	15		nification of simple mi	-	-			(-)	
	٦.	, AC 100			1 - f/d		1 + d/f	(D)	1 - f/d
	,		1 + f/d			` '		(D)	1 – Bu
]	6.		n adiabatic process, fin $Q = \Delta U + W$		\mathbf{V} of thermodynamics $\mathbf{Q} = \mathbf{W}$		$Q = \Delta U$	(D)	$W = -\Delta U$
				, ,			_	٠,	
1	7.		temperature of source						
		(A)	0.2	(B)	0.3	(C)	0.5	(D)	1