sec han Del	tion - A is compulsory. All parts of this tion are to be answered on this page and ded over to the Centre Superintendent. eting/overwriting is not allowed. Do not use d pencil.	SE	HYSICS CTION - Ame allowed:	(Ma	irks 17	V V	ر کار ایس کار میاند ایس کار ایس کار کار ایس کار	ليناوز	كريدة والمرابعة المواجعة في المجتل
Fill	the relevant bubble against each ques	Stio		77			د دائره کوپر کریں۔	ئ درست	ہر سوال کے سامنے دیے گے
1.	Which of the following is the base unit of pressure?	0	kg ms ⁻¹	0	$kg m^{-1}s^{-2}$	0	kg m ² s ⁻²	0	$kg m^{-2} s^{-1}$
2.	Error in the measurement of radius of sphere is 1%. The error in the calculated value of its volume is:		1%	0	2%	0	3%	0	4%
3.	If $A_{\mathbf{x}} = A_{\mathbf{y}}$, then the angle between vector \overrightarrow{A} and X-axis is:	0	30°	0	45°	0	60°	0	90°
4.	If the magnitudes of scalar and vector products of two vectors \overrightarrow{A} and \overrightarrow{B} are same, then angle between them will be:		30°	0	45°	0	60°	0	90°
5.	Distance covered by a freely falling body in 2 seconds will be:	0	9.8 m	0	4.9 m	0	29.4 m	0	19.6 m
	If a ball is thrown with a speed of $30ms^{-1}$ in a direction 30° with X-axis, then time of flight is:	0	3s	0	4s	0	5 <i>s</i>	0	68
7.	If the radius of moon is $1600 \ km$ and g on the surface of moon is $1.6 \ ms^{-2}$, then the escape velocity on moon is:	0	1600ms ⁻¹	0	1800ms ⁻¹	V O	2000ms ⁻¹	2	J. F. Griff
8.	The angular velocity of the second hand of a clock, in radians per second, is:	6	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	9	3	9	$\frac{1}{4}$	0	$\frac{\pi}{30}$
	Which of the following is TRUE for orbital velocity?	8	vær	0	$y \propto \frac{1}{\sqrt{r}}$	0	$v \propto \frac{1}{r}$	0	$v \propto \sqrt{r}$
10.	A 2m high tank is full of water. If a hole appears at its middle, then the speed of efflux is:	0	2.42 ms ⁻¹	0	3.42 ms ⁻¹	0	4.42 ms ⁻¹	0	5.42 ms ⁻¹
11.	For what displacement the P.E becomes one fourth of its maximum value?	0	$x = x_0$	0	$x = \frac{x_0}{2}$	0	$x = \frac{x_0}{\sqrt{2}}$	0	$x = \frac{x_0}{4}$
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	A death and the appended from the								Bi
12.	A simple pendulum suspended from the ceiling of a lift has time period T , when the lift is at rest. When the lift falls freely, the time period is:	0	0	0	$\frac{T}{g}$	0	$\frac{g}{T}$	0	Infinite
13.	Increase in velocity of sound in air for $1^{\circ}C$ rise in temperature is:	0	1.61ms ⁻¹	0	61.0 ms ⁻¹	0	0.61 ms ⁻¹	0	0.16 ms ⁻¹
14.	The distance between two consecutive crests or troughs is equal to:	0	λ	0	2λ	0	2/2/2	9	Mit
15.	It is possible to distinguish between transverse and longitudinal waves from the property of:	70	Refraction	9	Reflection	Q	Polarization	0	Diffraction
16.	For isothermal process, first law of thermodynamics can be written as:	9	$\Delta Q = \Delta U$	0	$\Delta Q = 0$	0	$\Delta Q = -\Delta U$	0	$\Delta Q = \Delta W$
17.	According to first law of thermodynamics:	0	$\Delta U = \Delta W - \Delta Q$	0	$\Delta U = \Delta Q - \Delta W$	0	$\Delta W = \Delta Q + \Delta U$	0	$\Delta Q = \Delta U - \Delta W$
			Important form	nulae					. 10
•	• V _{sphere} =	$\frac{4}{3}\pi$	r^3		• $g = 9.8ms^{-1}$	-2			¥ .
	$ullet$ $T_{flight}=$	2v,	$\frac{\sin \theta}{g}$			Bcos	$s\theta$		
	$ \mathbf{v}_{esc} = \mathbf{v}_{esc} $				$\circ \qquad \overrightarrow{A} \times \overrightarrow{B} = A$	(B si	$n\theta$		A CONTRACTOR
		20120			• $S = r\theta$, ,			
	$P.E_{inst}$	$=\frac{1}{2}$	kox*	7	$P.E_{\text{max}} = \frac{1}{2}$	\ \ (75) (F		
	Q (v = 33	2ms	-Vat O°C		$T = 2\pi \sqrt{\frac{l}{g}}$	1			
	TO THE COC.	,=1	1		16				i