## Intermediate Part First - 103 GROUP - II Paper Code PHYSICS (Objective) Marks: 17 Time: 20 Minutes



6478 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 be circles. Cutting or filling two or more circles will result in zero marks in that question. Attempt as many questions \$ given in objective type question paper and leave other circles blank.coa

	objective type question paper and leave other circles t	Malik.coa	BD-42-2	2	D
S.#	Questions	A	B	<u> </u>	
1	Dimensions of angular velocity are:	[LŢ <sup>-1</sup> ]	[T <sup>-1</sup> ]	[L <sup>-1</sup> T <sup>-1</sup> ]	[NLT-1]
2	Bernoulli's equation gives the dimensions of:	Pressure	Energy	Flow rate	Velocity
3.	If the initial phase is $\frac{\pi}{2}$ rad, the instantaneous	X <sub>0</sub> sin ωt	Xocosot	-X <sub>0</sub> sin wt	Zero
4	displacement in SHM will be: Human ear can recognize beats having maximum frequency equal to:	40Hz	Зонг	5Hz	10Hz
5	If 10 waves occupy 15cm, what is the wavelength?	0.6m	6cm	1.5cm	15m
6	When a red light is replaced with blue light in Young's experiment, fringe spacing:	Increases	Decreases	Remains same	Becomes
7	If the focal lengths of objective and eye-piece are doubled, the length of telescope becomes:	Double	Half	Three times	Four times
8	When ice melts, entropy	Increases	Decreases	Remains unchanged	Becomes more negativ
9	The relation $-W = +\Delta U$ , represents the process	Isothermal	Adiabatic expansion	Isothermal expansion	Adiabatic compression
10	Which is a base quantity?	Area	Charge	Electric current	Force
11	A measurement of a needle diameter, $D = 4.5 \pm 0.01$ mm has percentage uncertainty:	45 %	0.4 %	0.5 %	0.2 %
12	$ \hat{\mathbf{i}} + \hat{\mathbf{j}} + \hat{\mathbf{k}} $ is equal to:	3√2	2 √3	√3	1
13	For what angle between velocity and magnetic field, the force on a charge particle will be maximum?	90°	45°	0°	180°
14	The dragless ballistic trajectory for spherical earth should be:	Parabolio	e Elliptical	Hyperbolic	spherical
15	Horizontal acceleration of projectile motion is:	G	g	0ms <sup>-2</sup>	12ms <sup>-2</sup>
16	With increasing attitude, the absolute gravitationa potential energy of an object:	al Increase	s Decreases	negative	e Remains constant
17	For uniform circular motion, tangential	Centripet			Zero

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Objective

	-	Intermediate Part First Roll No.	
		PHYSICS (Subjective) GROUP - II	
		Time: 02:40 Hours Marks: 68	
	¥7 .	SECTION – I	υ.,
		Write the dimensions of (a) pressure (b) density.	1
	i)		
	ii)	Write that the famous Einstein equation $E = mc^2$ is dimensionally constant.	
	iii) iv)	Illustrate with an example, how uncertainty is calculated in addition of quantities? What is systematic error? How can it be reduced?	
-	v)	Define impulse and show how it is related to linear momentum.	
		At what point or points in its path does a projectile have its minimum speed, its maximum speed?	
		Why the kinetic energy is not conserved in inelastic collision?	
		What happens to the velocities of the body in an elastic collision when a light body collides with a massive b	ody
		at rest?	,
(i	ix)	Is it possible to construct a heat engine that will not expel heat into the atmosphere? Explain in brief.	
(2	<b>x</b> )	What happens to the temperature of the room, when an air conditioner is left running on the table in the midd	dle
		of the room?	
		Discuss in brief the power stroke for a petrol engine.	
		Differentiate between reversible and irreversible process.	
		te short answers to any EIGHT parts.	1
(i (i		Define torque. Write its unit and dimensions.	
		The vector sum of three vectors give zero resultant. What can be the orientation of the vectors? State the conditions of equilibrium.	
-		State work energy principle.	
(1		What is Salter's duck? How it is used to produce energy from wayes?	
	/i)	A boy uses a catapult to throw a stone which accidentally smashes a green house window. List the possible	
		energy changes.	1
(v	(ii)	State law of conservation of angular momentum. Write its one application.	
(v	vii) viii)	State law of conservation of angular momentum. Write its one application. Explain the difference between tangential velocity and angular velocity. If one of these is given for a wheel of	of
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6. (a) What is	the difference in 1	real and apparent wei	ght? Discuss the	change in apparent wei	ght with up
and dox	in accelerated mot	tion			,
(b)A truck	weight 2500kg an	id moving with a velo	ocity of 21ms · col	lides with a stationary Calculate their common	n velocity.
			ator the impact.		
(b)A churc	d explain Torricel h organ consists o	of pipes, each open at	one end of differe	nt lengths. The minim	
30mm a	ind longest is 4m.	calculate the frequer	icy range of the fu	ndamental notes.	
(speed)	of sound = $340 \text{ms}^{-1}$	-1)			N. Contraction
	and an and the second			1 . 1 . 0 1	
8. (a) Discuss	the diffraction of	light through diffract	ion grating and pr	ove that $d \sin \theta = n\lambda$ When a certain object	is hung on
(h)A 100.0	om body hung on	a spring elongates a	spring by 4.0cm.	When a certain object	is hung on
(b)A 100.0 the spri 9 (a)Write th	)gm body hung on ng and set vibratin ne principle, constru	a spring elongates a ag, its period is 0.568 uction and working of	spring by 4.0cm. s. What is the mass astronomical telese	When a certain object is of the object pulling cope. Also find its mag	is hung on the spring? mifying power.
(b)A 100.0 the spri 9. (a)Write the characteristic (b)A reven	)gm body hung on ng and set vibratin ne principle, constru- sible engine work:	a spring elongates a ng, its period is 0.568 uction and working of s between two temper	spring by 4.0cm. s. What is the mas astronomical telese ratures whose diffe	When a certain object is s of the object pulling cope. Also find its mag erence is 100°C. If it a	is hung on the spring? mifying power. absorbs 746J of
(b)A 100.0 the spri 9. (a)Write the characteristic (b)A reven	)gm body hung on ng and set vibratin ne principle, constru- sible engine work:	a spring elongates a ng, its period is 0.568 uction and working of s between two temper rejects 546J to the sir	spring by 4.0cm. s. What is the mass astronomical telesc ratures whose diffe ik, calculate the ter	When a certain object is of the object pulling cope. Also find its mag	is hung on the spring? mifying power. absorbs 746J of
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