

	Student Bounts.
Answer Sheet No	17/2
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PHYSICS SSC-I

SECTION - A (Marks 12)

Time allowed: 20 Minutes

NOTE:-	Section-A is compulsory. All parts of this section are to be answered on the question paper itself.					
	It should be completed in the first 20 minutes and handed over to the Centre Superintendent.					
	Deleting/overwriting is not allowed. Do not use lead pencil.					

(i) (ii) (iii)	A. The m	Second natter of the Sun	В.	ved unit?					
(iii)	The m	natter of the Sun		Metre					
(iii)	A.		is in		С	Kilogram	D.	Newton	
		Solid	_	The matter of the Sun is instate.					
	What	John	B.	Gas	C.	Plasma	D.	Liquid	
(hA)		is the distance o	f the mo	on from the earl	th?				
/is/\	Α.	1.5×10 ¹⁸ m	B.	3.8×10 ⁶ m	C.	4.3×10 ¹⁶ m	D.	$2.0 \times 10^{22} m$	
(iv)	The flight of a butterfly is an example of								
	A. Linear Motion				В.	Circular Motion			
	C.	Random Motio	on		D.	Rotatory Motion	n		
(v)	What is the value of gravitational acceleration?								
	A.	980 ms ⁻²	B.	$9.8 ms^{-2}$	C.	$98 ms^{-2}$	D.	$0.98ms^{-2}$	
(vi)	A ball is dropped from the top of the tower. What is the distance covered by it in the first second?								
	A.	100 Metre	B.	10 Metre	C.	50 Metre	D.	5 Metre	
(vii)	What	is the value of si	in 30°?						
	A.	$\frac{\sqrt{3}}{2}$	B.	$\frac{1}{\sqrt{3}}$	C.	1 2	D.	$-\frac{1}{\sqrt{2}}$	
(viii)	What	is the unit of torq	jue, in th	e system of inte	ernation	al unit?			
	Α.	Newton secon	d		B.	Newton			
	C.	Newton metre			D.	Newton per sec	cond		
(ix)	Rate	of doing work wit	h respec	et to time is calle	ed:				
	A.	Force	B.	Power	C.	Energy	D.	Work	
(x)	What	is the Mechanica	al Advan	tage of Single N	Novable	Pulley?			
	A:	1	B.	2	C.	3	D.	4	
(xi)	When water changes into ice, what happens with it?								
9	A.	Contracts	B.	Expands	C.	Become dense	D.	Remain same	
(xii)	Which	material is bette	er for ins	ulation?					
	Α.	Glass	B.	Brass	C.	Air	D.	Fibre glass	
For Ex	kamine	r's use only:							

---- 1SA-1007 (L) ---



PHYSICS SSC-I

rime allowed: 2:40 Hours

Total Marks Sections B and C: 53

NOTE:- Answer any eleven parts from Section 'B' and any two questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

		SECTION - B (Marks 33)	
Q. 2	Answ	ver any ELEVEN parts. The answer to each part should not exceed 3 to 4 lines. (11	x 3 = 33
	(i)	Define Nuclear Physics, Geo Physics and Plasma Physics.	
	(ii)	What is Personal Error? How are the Personal error and Random error minimized?	
	(iii)	Differentiate between Speed and Velocity	
	(iv)	State Newton's First law of motion. Why is this first law of motion also known as law of inertia'	?
	(v)	What causes friction between the two surfaces?	
	(VI)	Under what condition the distance and displacement between two points will be equal?	
	(vii)	What is Centrifuge? What is its function?	
	(viii)	What do you know about Interconversion of Kinetic Energy and Potential Energy of free falling	bodies'
	(ix)	What is lever? State the principle of lever.	
	(x)	While constructing bridges, one end of the beam is placed on rollers. Why?	
	(xi)	Define Latent Heat of Fusion and Latent Heat of Vaporization.	
	(xii)	State the Right Hand Rule.	
	(xiii)	Define Stress and Pressure.	
	(xiv)	A body moves along a straight line from rest with an acceleration of $2ms^{-2}$. Calculate the time	e taken
		it to cover a distance of $100m$.	
	(xv)	Television announced $30^{\circ}C$ temperature of Lahore. How much this temperature be in Fahren	nheit and
		Kelvin Scales?	
		SECTION - C (Marks 20)	
Note:		npt any TWO questions. All questions carry equal marks. (2 x 10 = 20)	9.000
Q. 3	a.	State and prove the law of conservation of Momentum with one example.	1+4
	b.	Prove that $S = v_i t + \frac{1}{2} a t^2$	03
	c.	A car is moving with an acceleration of $4 ms^{-2}$. If its velocity at a certain instant is $10 ms^{-1}$, th	ien
		determine how much distance it will cover in the next 5 seconds.	02
Q. 4	a.	What is meant by resolution of vectors? How will you find rectangular components, magnitude	and
		direction of resultant vector?	1+5
	b.	A man pulls a car with a force of $70N$ making an angle of 30° with the horizontal direction.	
		Find out the x and y components of this force.	03
	C.	Define Equilibrium.	01
Q. 5	a.	State and prove the Archimedes principle.	1+5
	b.	Define volume expansion and prove that $V_2 = V_1 \left[1 + \beta \left(T_2 - T_1 \right) \right]$	03
	C.	Define Radiation.	01

---- 1SA-1007 (L) ----