(For all sessions)

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Paper Code	6	4	1	1

Physics (Objective Type)

(A) Four steps

(B) Three steps

Time: 20 Minutes Marks: 17

NOTE: Write answers to the questions on objective answer sheet provided. Four possible answers A,B,C & D to each question are given. Which answer you consider correct, fill the corresponding circle A,B,C or D given in front of each question with Marker or pen ink on the answer sheet provided.

UI	each question with marke	or peri lik on me	allower silee	r bir	ovided.		
1.1	Mass is highly concentrate	ted form of:			a		
	(A) Inertia	(B) Energy	((C)	Plasma	(D)	Charge
2	Dimensions of $\sqrt{\frac{g}{\ell}}$ is sa	me as:					<i>\$</i> ⊗
	(A) Angular frequency	(B) Force		(C)	Torque	(D)	Time period
3	. Force of 10N makes an a	angle of 30° with y-a	axis, its x-con	npo	nent will be:		
	(A) 5N	(B) 8.66	((C)	$\frac{10}{\sqrt{2}}N$	(D)	$10\sqrt{2}N$
4.	In which quadrant vector	$-2\hat{i}-3\hat{j}$ lies.					_ 20 # §
	(A) 1st	(B) 2nd	121 (2.1)	(C)	4th	(D)	3rd
5.	Distance travelled by free	falling object in fire	st second is:			(0.000.00	Nava-ra
	(A) 4.9m	(B) 9.8m	(C)	19.6m	(D)	10m
6.	Choice of zero potential e	energy level is:		8 20150		67 115M	
	(A) Surface of the Earth	177.20 N		(B)	at infinity		¥0
	51 10° Control				23 C24-2444-10044	32	Dr. B
	(C) Just above the surfa	ace of the Earth	(D)	arbitrary		
7	. 2° is equal to:				*		
	(A) 0.035 rad	(B) 0.30 rad	(C)	0.35 rad	(D)	0.0035 rad
8	. Centripetal force is direct	ed along:					¥1
	(A) Tangent to circle	(B) radius	(C)	axis of rotation	(D)	x-axis
5	9. Terminal velocity of a pa	article in the fluid de	pends on:				
	(A) Nature of fluid	(B) Acceleration	of particle ((C)	Force on particle	(D)	angular velocity of particle
10.	Radar system is an applic	cation of:					
	(A) Electric effect	(B) Doppler's eff	ect (C)	Magnetic effect	(D)	Chemical effect
11.	ℓ . m						
	$\sqrt{\frac{\ell}{g}}$ and $\sqrt{\frac{m}{k}}$ has same	∋:	* *				
	10	(B) units		C	damping	(D)	time period
40	(A) numerical value	10% W se wy 1900	cere cons	3 (5)		(D)	time period
12.	On loading the prong of to						
	(A) increases	(B) decreases	(1	C)	remains same	(D)	periodic increase and decrease
13.	Fringe spacing increases	if we use:					
	(A) lowest order	(B) highest order	(0	C) r	ed light	(D)	blue light
14.	Soap film shows colours	due to:	**				V9
	(A) Interference	(B) Diffraction	. (0	C) F	Polarization	(D)	Reflection
15.	Magnifying power of the le	ens is 6 then its foc	al length will	be:			
	(A) 4	(B) 6	(0	C) 5	5	(D)	4.5
16.	The SI unit of product of p	pressure and volum	ie is:				
	(A) Watt	(B) Joule	(0	C) F	Pascal	(D)	N.m
17.	Carnot engine cycle consi	ists of:			80 2		

(C) Single step

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(D) Two steps