Name:						1st YEAR Test Session 2021-22									Physics				Time Allowed: 45 M				
Roll# Section:						Syllabus: Ch#05									Total Marks: 30				Obt Marks:				
	ve H	ve Happy Ch								hange Thoughts, Change Society													
Q# A B C D			Q#	A	В	С	D	Q#	A	В	C	D	Q#	A	В	С	D	Q#	A	В	C	D	
01. O O O 02. O				0	0	$\frac{\circ}{\circ}$	03.	0	$\frac{\circ}{\circ}$	$\frac{1}{2}$	0	04.	0	0	0	$\frac{1}{2}$	05. 10.	0	0	0	0		
Q.	You ha	ve for	1000,000	oice	s for	eac	<u> </u>		ive tv	ne o	mes	ction	50000000	A. B	Ca	nd l	<u>O</u>	12.08	hoice	wh	ich	vou	
No.	think							_		_	-				gr. Andre da							-	
1	filling more than one circle will result in zero marks in that question. (10x1=10)																						
Sr.#	Questions					PERSONAL PROPERTY AND ADDRESS OF THE PERSONAL PR			A]			C			D 200000					
1	Height above t	sate	ellite		2600	0km			360	000kı	m	4000km				300000							
2	commu	Minimum number of communication satellite						4				3		2				1					
	required to cover the v					eartl	n						K										
3	When the become		of 'g	,'	2times				3times		4times				same								
	will be			1.4-			-	57 ⁰		-	57.20			54.70		47.70							
4	One rad				C						_		57.3°		54.7°		47.7 ⁰ A and b						
5	Angula represe	-		ciit i	3		P	PAK FORCE			COA	КĊН	ING			5			A and 0				
6	The SI			_	Rad/sec			ONA		lev/min			A and B			None							
7	At max body	locit	y of	a	Maximum				Sar		4		Minimum		n	A and B							
8	Centripetal force is given F _c =?					y	V	mv ² /r				mv	$^2/\mathbf{r}^2$			$mr \omega^2$			A and C				
9	One co	tellit	e		90°				45°			1200			180^{0}								
10	A full circle contains							π/2 radi			UL,	π /3		3		π rac	lian) 2		2 π radian			
10	71 1011 (incic c	Ontai	113				n	72 Tuc	· idii	22			ian			ııaıı				an		
Q#:2 Answer the Following short Questions (6x2=12)																							
i. What is relation b/w linear ar						and angular						Difference between tangential velocity and											
	velocity		o to							velocity. How they are related?													
				stationary verage of				When mud flies off the tyre of a moving bicycle, in what direction does it fly? Explain?							in?								
	T.V tran		010	crage or				orey	010, 1	ii what direction does it if . Expia													
	goyatyani, totalyona tara			w de	gree	ee and radian. How				vi.		Describe what should be the minimum velocity,											
1	many rad	lians a	re the				15				-17 - 2-1-1	-7-1-1111-121		- 315		Theodori	se to	the	earth	aro	und	. it.	
Q#:3 Answer the Following short Questions (5+3=8)																							
(a) What is artificial gravity? Drive the frequency of artificial gravity.																							
(b) A body of moment of inertia I = 0.80Kgm ² about a fixed axis, rotates with a constant angular velocity of 100 rad s ⁻¹ . Calculate its angular momentum L and the torque to sustain this motion.													ocity										
	01 100	rau s	. Car	cuial	e its	angt	mar	поп	iciitui	пL	and	me t	orqu	10	sust	aiii ti	IIIS II	попо	11.				