

Name: _____				1 st YEAR Test Session 2021-22				Physics				Time Allowed: 45 M							
Roll# _____		Section: _____		Syllabus: Ch#02				Total Marks: 30				Obt Marks: _____							
Think Positive , Live Happy										Change Thoughts , Change Society									

Q#	A	B	C	D	Q#	A	B	C	D	Q#	A	B	C	D	Q#	A	B	C	D	Q#	A	B	C	D																									
01.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	02.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	03.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	04.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	05.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	06.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	07.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	08.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	09.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	10.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q. No. 1 You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, Fill bubble sheet that option. Cutting, Over-writing, using lead pencil and filling more than one circle will result in zero marks in that question. (10x1=10)

Sr.#	Questions	A	B	C	D
1	Which is a vector quantity?	K.E	force	power	Work
2	The unit vector of vector A of magnitude 2 is:	A/2	2/A	2A	A ² /2
3	If a force of 20N is acting along x-axis, its y-component is given by:	20N	10N	Zero	5N
4	The vector product of two anti parallel vectors is:	Zero	null vector	1	None
5	If F _x =3N and F _y =4N then the magnitude of resultant vector is:	zero	25N	5N	7N
6	The direction of position vector of point A (0,3) is:	60 ⁰	120 ⁰	90 ⁰	0
7	The SI unit of torque is:	Nm ⁻¹	Nm	Kgm ² s ⁻²	A and B
8	The magnitude of vector can never be:	Positive	negative	+ve &- ve	None
9	If R _x and R _y are negative then its direction is	1 st quadrant	2 nd quadrant	3 rd quadrant	4 th quadrant
10	A.A is equal	A ²	0	-A	A

Q#:2 Answer the Following short Questions (6x2=12)

I. Can a vector have a component greater than the vector's magnitude?	II. Find the angle b/w two vectors. A=5î + ĵ and B= 2î + 4ĵ.
III. Is it possible to add a vector quantity to a scalar quantity?	IV. Prove that î.î =ĵ.ĵ= k.k =1
V. Can a body rotate about its centre of gravity under action of its weight?	VI. Can you add zero to null vector?

Q#:3 Answer the Following short Questions (5+3=8)

- (a) Write down any five properties of dot and cross product?
- (b) Given that A=i-2j+3k and B=3i-4k find the projection of A on B?