Name:_____	1st YEAR Test Session 2021-22	Physics	Time Allowed: 45 M
Roll#_____ Section:_____	Syllabus: Ch#03	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.	○	○	○	○	02.	○	○	○	○	03.	○	○	○	○	04.	○	○	○	○	05.	○	○	○	○
06.	○	○	○	○	07.	○	○	○	○	08.	○	○	○	○	09.	○	○	○	○	10.	○	○	○	○

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	Acceleration will be increase when velocity is	+ve	-ve	Zero	Infinity
2	Instantaneous velocity is, when	$\Delta d \rightarrow 0$	$\Delta t \rightarrow 0$	Time is maximum	Infinity
3	Area of velocity time graph give us	Velocity	Acceleration	Displacement	Retardation
4	Momentum is quantity	Scalar	Vector	Base	None
5	In an elastic collision	K.E=0	Momentum is zero	Velocity is zero	P and K.E conserved
6	In an inelastic collision	K.E conserved	P conserved	Both lost	None
7	The common factor in an elastic collision and inelastic collision	P is conserved	E total conserved	Both a and B	K.E
8	Ranges are equal when angles is exceed or fall short by	45	180	90	0
9	$m_1 >> m_2$ collide each other such that $v_2=0$ then v_2' will be	Zero	Maximum	$2V_1$	V_2
10	Rate of change in momentum is	Velocity	Force	Impulse	Acceleration

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

I.	What happened when a heavy body collides with a lighter body at rest?	**II.**	What do you know about range of projectile?
III.	Define impulse and show that how it is related to linear momentum.	**IV.**	What is relation between momentum and force?
V.	At what point or points in its path does a projectile have its minimum speed, its maximum speed?	**VI.**	Can the velocity of an object reverse the direction when acceleration is constant? If so give example?

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

(a) Define and explain law of conservation of momentum?

(b) A foot ball is thrown upward an angle 30 with respect to the horizontal. To throw a 40m pass. What must the initial speed of the ball?