

Name: _____		1 st YEAR Test Session 2021-22				Physics				Time Allowed: 45 M					
Roll# _____		Section: _____		Syllabus: Ch#01				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	How many are the main frontiers of fundamental science	4	3	2	1
2	The branch which deals with the velocities approaching that of light is called	Relativistic mechanics	Solid state physics	Partical physics	Plasma physics
3	Temperature is a	Base quantity	Derived quantity	Supplementary unit	None
4	Giga is equal to	10^9	10^6	10^{10}	None
5	The correction factor applied in	Random error	Systematic error	Significant figure	None
6	The age of universe is	5×10^{16} &	5×10^{18}	5×10^{17}	6×10^{17}
7	Two term can be added only whensame	dimensions	Sign	symbol	Charge
8	What is the time of light between sun to earth	1 min 20 sec	8 min 20 sec	5 h 20 sec	7 h 30 sec
9	Power in term of base unit is	$\text{kgm}^2\text{s}^{-3}$	Kgm^{-1}	Js^{-1}	Both a and c
10	Electric charge in term of base unit	As	Nm	Js^{-1}	Web

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

i. Give the drawbacks to use the period of pendulum as time standard.	ii. Write the names of all base quantities.
iii. Why do we find it useful to have two units for the amount of substance the kilogram and the mole?	iv. Define supplementary units and write the name of supplementary units.
v. Name several repetitive phenomenon occurring in nature which could serve reasonable time standard.	vii. What is scientific notation? And give an example.

Q#:3 Answer the Following short Questions (4+4=8)

a) Write the dimension and units of gravitational constant G in the formula $f=G \frac{m_1 m_2}{r^2}$.
b) A light year is the distance of light travels in one year. How many meter are there in one light year. (speed of light = $3 \times 10^8 \text{ms}^{-1}$)