

Name: _____		1 st YEAR Test Session 2021-22				Physics				Time Allowed: 45 M					
Roll# _____		Section: _____		Syllabus: Ch#08				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 wave does need medium	Mechanical wave	Electromagnetic wave	Sound wave	A ,c
2	Types of wave are	1	2	3	4
3	Wave associated with fast moving particle are calledwave	Matter	mechanical	sound	Stationary wave
4	In transverse wave particle of medium viberate to propagation of wave	perpendicular	parallel	Anti parallel	B c
5	According to laplace during compression to rarefaction temperature remains	constant	variable	negative	positive
6	Density having relation with density	direct	inverse	No relation	none
7	Speed of sound in hydrogen is times its speed in oxygen	four	Five	sixteen	six
8	When two waves travelling in same direction but same frequency	beats	stationary	interference	none
9	Can energy transfer in stationary wave	yes	no	May be	none
10	Unit of frequency is	Hz	Newton	Pascal	nm

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

<p>i. What feature do longitudinal waves have in common with transverse waves?</p>	<p>ii. Define periodic wave.</p>
<p>iii. Is it possible for two identical waves travelling in same direction arises stationary wave?</p>	<p>iv. Define constructive & destructive interference.</p>
<p>v. Explain the term crest, trough, node, anti node?</p>	<p>vi. Define stationary waves and beat?</p>

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

- (a)** Prove that $V_t = v_0 + 0.61t$.
- (b)** An organ pipe has a length of 50 cm. Find the frequency of its fundamental note and the next harmonic when it is open at both ends.