

Class: X

Marks : 40

Time : 1¼hrs

PHYSICS

1. Write notes

- a) Transverse wave
- b) Wave length
- c) Acoustics of buildings
- d) Reverberation

- 1x4= (4)

2. The frequency with which a body vibrates freely is called

(1)

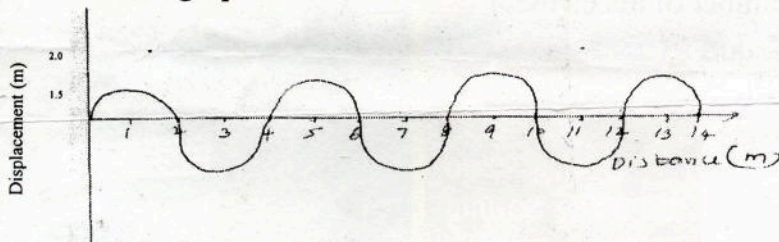
3. Complete the second pair

Frequency : Hertz

Wavelength :

(1)

4. Observe the graph



a) Find out the amplitude of the wave

(1)

b) What is the speed of the wave if it travels 800m in 2 sec?

(2)

c) What is the frequency of the wave?

(2)

5. a) A person who bursts a cracker hears its echo after 1 sec. What is the distance to the reflecting surface if the speed of sound in air is 340 m/s.

(3)

b) What is echo?

(1)

6. Find Reason

a) We can hear sounds from a longer distance during the monsoon.

(1)

b) The walls of big halls are rough

(1)

7. a) Explain an experiment on resonance using sonometer

(2)

b).What is resonance.