

PHYSICS : CLASS IXTH

TOPIC : SOUND WAVES

PREPARED BY : VIVEK SINGH

TEST : 01

MAX. TIME : 01:00 HRS

MA. MARKS : 30 MARKS

Q1. SHORT ANSWERS QUESTIONS : (05 MARKS)

- A) Wave used by astronauts for communication in space ?
- B) Why Sound waves are called mechanical waves?
- C) Aircrafts flying at speed higher than speed of sound are known as ?
- D) What should an object should do produce sound ?
- E) Nomenclature for waves containing : i) Crest & trough ii)compression and rarefractions

Q2. An explosion carried out in a vacuum is visible to a human being but is not audible. Why?
(02 MARKS)

Q3. What is sound wave? Define their types along with the proper diagram. (05 MARKS)

Q4. Define the following terms : (10 MARKS)

- A) Wavelength
- B) Time period
- C) Amplitude
- D) Supersonics
- E) Crest & Rarefraction

Q5. A sound wave has a frequency of 2 kHz and wave length 35 cm. How long will it take to travel 1.5 km?
(04 MARKS)

Q6. A ship sends out ultrasound that returns from the seabed and is detected after 3.42 s. If the speed of ultrasound through seawater is 1531 m/s, what is the distance of the seabed from the ship?
(04 MARKS)