

**NEW AL WUROOD INTERNATIONAL SCHOOL, JEDDAH,
K.S.A**



Affiliated to CBSE – New Delhi, Affiliation No. 5730008

TERM-3- March, 2022-23

WORKSHEET-2

GRADE: 8

SUBJECT: SCIENCE

Choose the correct answer:

- 1) The part of the ear that vibrates on receiving sound waves from external ear
(a) Cochlea (b) Optic nerve (c) Ear drum (d) Pinna
- 2) The sound waves travel fastest in
(a) Solid (b) Liquid (c) Gel (d) Gas
- 3) Sound cannot travel through
(a) Air (b) Water (c) Vacuum (d) Steel
- 4) Which of the following musical instrument is different from others?
(a) Veena (b) Guitar (c) Flute (d) Sitar
- 5) Periodic vibrations produce
(a) Noise (b) Music (c) Both (d) None

Fill in the blanks:

- 6) Humans can hear sounds that have a frequency more than _____ Hz.
- 7) Sound is produced when something _____.
- 8) The _____ propagates but the particles of the medium vibrate about a mean position.
- 9) Speed of sound in air is _____.
- 10) The unit of frequency is _____.

Assertion reason type questions:

- (a) Both A and R are true and R is the correct explanation of A
- (b) Both A and R are true and R is not correct explanation of A
- (c) A is true but R is false.
- (d) A is false but R is true.

11) Assertion: Sound wave travels as alternate rarefaction and compression.
Reason: Sound wave needs material medium to propagate.

12) Assertion: Two people cannot talk to each other on the moon.
Reason: There is no medium on the moon.

13) Assertion: Stethoscope is a medical instrument used for listening to sounds produced within the body, mainly in the heart or lungs.
Reason: In the stethoscope the sound of the patient's heartbeat reaches the doctor's ears by multiple reflections of sound.

Answer the following questions:

- 14) List the factors effecting the speed of sound. Through which medium is the speed of sound more and through which medium is the speed of sound the less.
- 15) Why sound waves are called longitudinal waves?
- 16) List the conditions for hearing an echo.
- 17) Differentiate between infrasonic and ultrasonic sounds.
- 18) What is seismograph? What is it used for?
- 19) Differentiate between pitch and loudness.

CASE STUDY:

20) The 2001 Gujarat earthquake, also known as the Bhuj earthquake, occurred on 26th January at 8:46 am IST and continued for 2 minutes and the measuring of the Richter scale is 6.9. The epicenter was about 9 km south-west of the village of Chobari in Bhachau Taluka of Kutch district of Gujarat, India.

- 1) How is an earthquake caused?
- 2) What is epicenter?
- 3) Write any 4 preventions and precautions that should be taken during an earthquake.

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