



Grade 08

Science

Unit : 05
Sound

Part I

Underline the most suitable answer

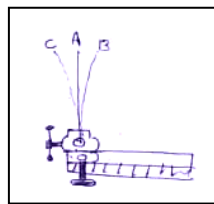
- 1) The answer contains only sources of sound produced by vibrating membranes
- i) Guitar, Trumpet, Xylophone ii) Horanawa, Flute, Conch shell
 iii) Gataberaya, Udakkiya, Daula iv) Horanawa, Guitar, Piano
- 2) Which statement is incorrect regarding sound?
- i) Sound is produced because of the vibration of objects
 ii) Objects that create sounds are called sources of sound
 iii) Sound is created either naturally or artificially
 iv) The high frequency of the sound is created when the membrane of a thabla is stretched is lesser.
- 3) The method of treatment which is used for mental relaxation using music is,
- i) Homeopathy ii) Musical therapy iii) Nerve therapy iv) Eye therapy
- 4) The correct statement regarding the limits of hearing human is,
- i) less than 20 Hz ii) Higher than 20000
 iii) In between 25000 Hz - 70000 Hz iv) In between 20 Hz - 20000 Hz
- 5) Select the correct statement about following tuning forks?
- i) Frequency of B is greater than A
 ii) Arm length of tuning forks doesn't affect for frequency
 iii) Frequency of A and B are equal.
 iv) Frequency of A is greater than B
- A B
- 6) Some statement about musical tone and noises are given below.
- a) The irregular sounds pleasant to ears are called noises.
 b) Rhythmical sounds which are pleas and to out ears are musical tones.
 c) The sounds coming from vehicle are called noises.

Correct statement / statements,

- i) Only a ii) Only b iii) a and b only v) b and c only

7) Following diagram shows an instance of a hacksaw blade tightly fixed in its lower end if its middle position is A, the distance mouse in one vibration is,

- i) From A → B
- ii) From A → B → C → A
- iii) From A → B → C
- iv) From B → C → A



8) The correct symbol of SI unit of frequency,

- i) Fe ii) Hz iii) HZ iv) hZ

9) A musical instrument which is used in the 2 modern world is,

- i) Double drum ii) Geta beraya iii) Large drum (daula) iv) Guitar

10) This is an animal that is producing sound by rubbing the bristles of their legs,

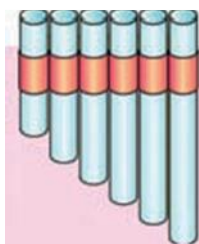
- i) Humming bird ii) Cicadas iii) Fly iv) Frog

Part II

Answer all questions

- 1) Source of sound can be divided into three groups according to the part that vibrates when producing sound.
 - i) Name those three groups and give 2 examples for each.
 - ii) Draw any two out of them
 - iii) Write two factors that affect for the frequency of sound produced by a guitar.
 - iv) What do you mean by limits of hearing?
 - v) Write two advantages of musical therapy.
 - v) What is the method used to produce the sound in the instrument given below?

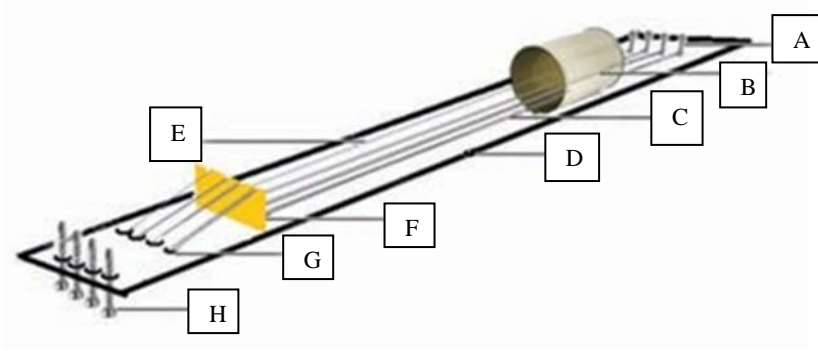
A B C D E F



vi) In which pen tube can be heard a highest sound?

O2.

- i) State 2 examples for each natural sounds and artificial sounds.
- ii) Briefly explain the way of making a musical instrument that produce sound by vibrating membranes.
- iii) a. Name the parts from A to H in the following instrument.



b. Write two factors that affect for the frequency of sound produced by above instrument.

3) Fill in the blanks by using suitable words

- 1) When the length of the vibrating air column is less, it gives a sound of frequency.
- 2) Sound of frequency can be obtained, when the membrane of a drum is thinner.
- 3) Bat can hear the sounds of higher frequencies up to Hz.
- 4) Instruments that produce sound are called of sound
- 5) Xylophone is an instrument that produces sound by vibrating