

SOUND WS 1

Class 09 - Science

Section A

1. Match the column I with column II and mark the correct option from the codes given here. [1]

Column I	Column II
(a) String vibration	(i) Tabla
(b) Membrane vibration	(ii) Bicycle bell
(c) Vibration of air column	(iii) Sitar
(d) Vibration of plate	(iv) Flute

- a) (a) - (i), (b) - (iv), (c) - (ii), (d) - (iii) b) (a) - (ii), (b) - (iii), (c) - (i), (d) - (iv)
 c) (a) - (iv), (b) - (ii), (c) - (iii), (d) - (i) d) (a) - (iii), (b) - (i), (c) - (iv), (d) - (ii)

2. **Assertion (A):** Sound is produced when an object vibrates or moves back and forth rapidly. [1]

Reason (R): The energy required to make an object vibrate is provided by some outside source.

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

3. **State True or False:** [1]

- (a) The sound of a drum is produced by the vibrations of the skin or its membrane when plucked. [1]

4. **Fill in the blanks:** [1]

- (a) _____ means a kind of rapid to and fro motion of an object. [1]

5. What is sound and how is it produced? [1]

Section B

6. Sound is produced due to a vibratory motion, then why a vibrating pendulum does not produce sound? [2]