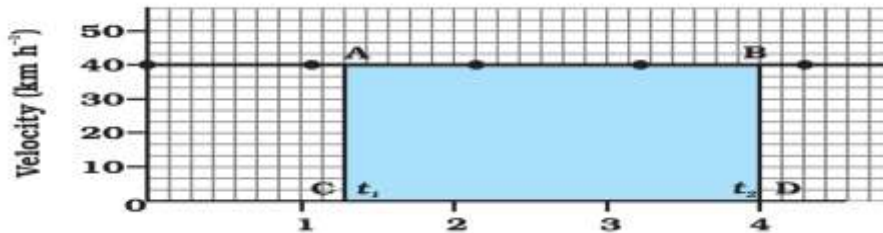_____

1. On increasing the temperature, particles moves faster. This is due to:

   a. Increase in kinetic energy of particles.
   b. Decrease in kinetic energy of particles.
   c. Increase in pressure.
   d. Decrease in pressure

2. Pewter is an alloy of:

   a. Copper and Silver
   b. Tin and Copper
   c. Zinc and Copper
   d. Tin and zinc

3. Which of the following is the formula for aluminum oxide?

   a. Al_3O_2
   b. Al_2O_3
   c. AlO
   d. Al_2O

4. Atoms of different elements that have different atomic numbers but have same mass number are known as:

   a. Isobars
   b. Isotopes
   c. Isotones
   d. Isotherm

5. Who discovered Cell and Nucleus?

   a. Robert Hooke and Robert Brown respectively.
   b. Robert Brown and Robert Hooke respectively.
   c. Leeuwenhoek and Purkinje respectively.
   d. Schleiden and Schwann respectively.

6. The flexibility of plant is due to the presence of which tissue?

_____

    a. collenchyma

    b. Xylem

    c. Sclerenchyma

    d. Parenchyma

7. Blue-green algae or cyanobacteria, and mycoplasma belongs to which category of kingdom:

    a. Monera

    b. Plantae

    c. Protista

    d. Fungi

8. Calculate the distance travelled by a school bus from the following graph:
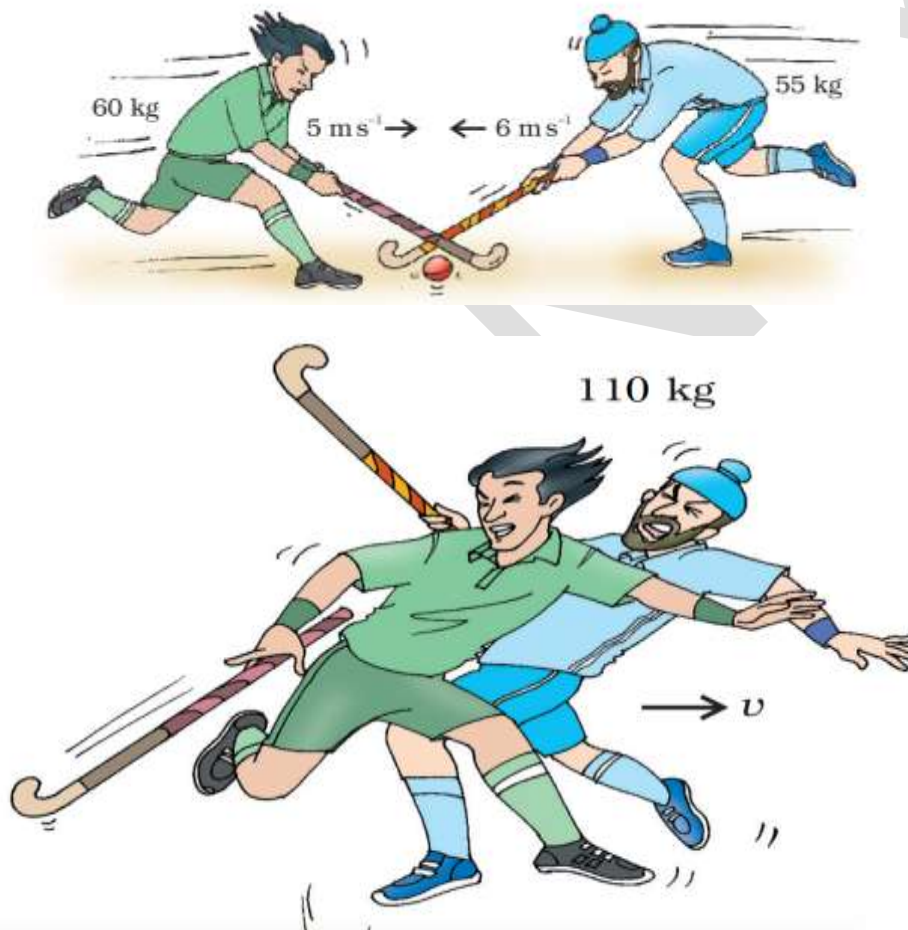

    a. $40 (t_1)$

    b. $40 (t_2)$

    c. $40 (t_2 - t_1)$

    d. $40 (t_1 - t_2)$

9. What will be direction of the friction exerted by road on the car?

a. From right to left ($\leftarrow$)

b. Vertically downwards ($\downarrow$)

c. From left to right ($\rightarrow$)

d. Vertically upwards ($\uparrow$)

10. Calculate the velocity after the collision:
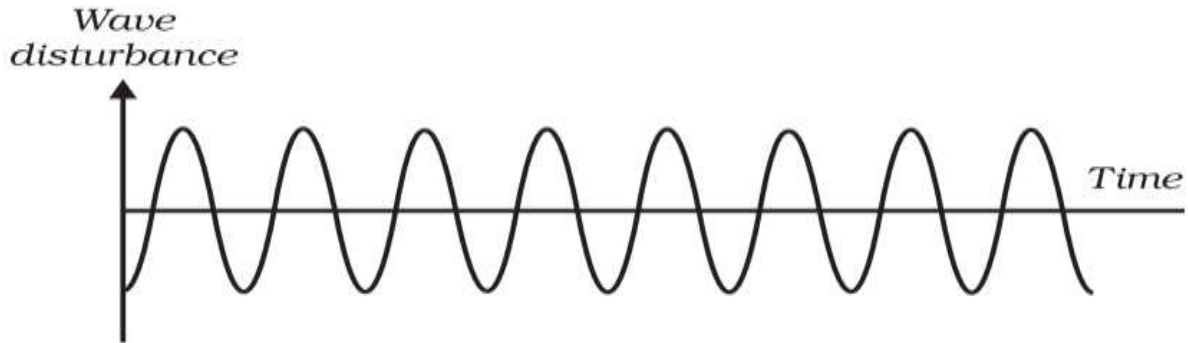

a. 11.5

b. 16

c. 12.6

d. 0.27

_____

11. A car falls off a ledge and drops to the ground in 1.6 s. ($g = 10$ m s^{-2}). Calculate the speed on striking the ground.

    a. 10
    b. 160
    c. 16
    d. 20

12. Calculate kinetic energy if a body of mass 15 kg moving with a uniform velocity of 4m s^{-1}.

    a. 60
    b. 1200
    c. 120
    d. 12

13. The following graph represents which nature of sound.

    a. Low pitched sound
    b. High pitched sound
    c. faint sound
    d. Soft sound

14. Bacteria responsible for peptic ulcer is:

    a. Leishmania
    b. Staphylococci
    c. Helicobacter pylori
    d. Trypanosoma

_____

15. The temperature at moon rages from:

      a. -19^0 C to 11^0 C
      b. -190^0 C to 110^0 C
      c. -10^0 C to 110^0 C
      d. -38^0 C to 40^0 C

16. In which of the following form do plants absorb N_2

      a. NO_2^-
      b. NO_3^-
      c. NH_4^+
      d. All of these