

BASIC SCIENCE

Standard: VIII

Time : 2 ¼ Hour
Total Score : 60

Instructions

- First 15 minutes is given as cool off time. This time is to be spent for reading and understanding the questions.
- Answer the questions based on instructions.
- Answer the questions according to score and time

PHYSICS

One score each for questions 1 to 3.

(1 X 3=3)

1. Analyse the relation between words in first pair and complete the second

Length : m

Mass :

(1)

2. Motion of four different objects are stated below. Choose the odd one.

Also state the reason for choosing it.

(A train starting from the station, A stone thrown up, The motion of a ball rolling down a hill, The motion of a coconut falling from a coconut tree)

(1)

3. Which among the given units is in the correct form?

(metre/s², m per s², m/s², metre per s²)

(1)

Answer any **FOUR** questions from 4 to 8. Each question carries 2 score.

(4 x 2 = 8)

4. Classify the following situations as contact force and non-contact force

a. A magnet attracting a nail

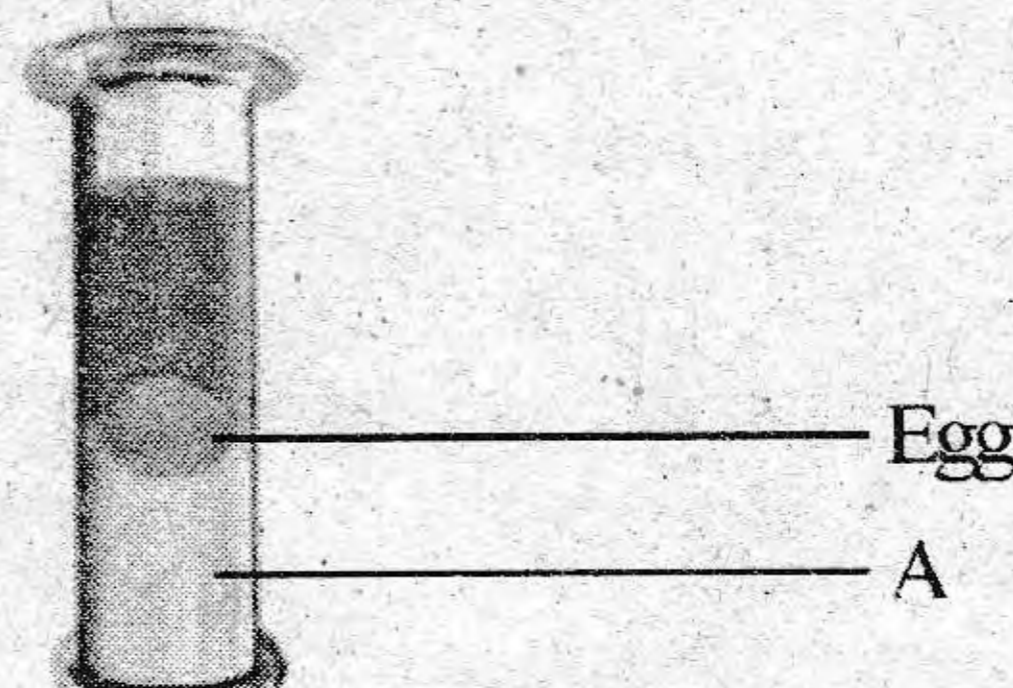
b. Pushing a wall

c. An apple falling from an apple tree

d. A plastic pen rubbed on hair attracts pieces of paper

(2)

5. Diagram of an experiment done using brine solution, Kerosene and egg is given below.



a. Which liquid is labelled as 'A'?

(1)

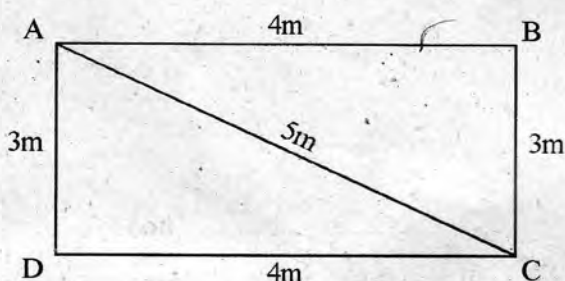
b. Why do the egg remains in the position as in the above diagram?

(1)

6. You might have done the activity for measuring the diameter of a sphere.
Write down the steps involved in the above activity in correct sequence. (2)
7. Write down the following distance in the ascending order of their values
2 m, 5 cm, 1 km, 10 mm (2)
8. a) Choose the appropriate reference body from the given list so that a passenger sitting in a moving train can be said to be in motion.
(train, Another passenger next to him in the train, objects outside the train) (1)
- b) What is meant by the term 'reference body'? (1)

Answer any **THREE** questions from 9 to 12. Each question carries 3 score. (3 x 3 = 9)

9. A child starts from A and reaches C through B in 1s.



- a) What is the total distance travelled by the child? (1)
- b) Calculate the speed of the child? (1)
- c) Another child starts from A and reaches C along ADC.
Find out the displacements of each and compare. (1)

10. Match the items in column A with Column B and C

A	B	C
Time	Vector	m/s
Acceleration	speedometer	s
Speed	Sundial	m/s ²

11. Carelessness on the part of drivers as well as pedestrians is the primary reason for road accidents. Write any three precautions to be taken by the pedestrians to avoid road accidents. (3)
12. State whether the given statements are right or wrong. If wrong correct them.
- a) When a body travels along a straight line in the same direction, the magnitude of its distance and displacement will be different (1)
- b) SI units are unified units (1)
- c) Light travels through vacuum with non uniform velocity (1)