

CBSE MIXED TEST PAPER-04

CLASS - 9 SCIENCE

(Unit Test)

General Instructions:-

- (i) All questions are compulsory.
- (ii) Marks allotted to each question are indicated against it.

1. Define the following (any 4)

Alloy, pure, substance, tissue, force, Inertia, (4)

2. Give reason for the following: (5)

- a. It is difficult for freeman to hold a hose, which ejects large amount of water at a high velocity.
- b. A fielder pulls his hands gradually with the moving ball while holding a catch.
- c. Some of the leaves get detached from a tree if we vigorously shake its branch.
- d. Soil is called mixture.
- e. Burning of paper is a chemical change.

3. Very short answer question: (5)

- a. What type of mixtures are separated by the technique of crystallization?
- b. Name the regions in which parenchyma tissue is present.
- c. What is the role of epidermis in plants?
- d. Why is it advised to tie any luggage kept on the roof of a bus with a rope?
- e. What is a saturated solution?

4. Short answer type questions: (10)

- a. Difference between elements and compounds.
- b. Draw a labelled diagram of a neuron.
- c. How are simple tissues different from complex tissue in plants?
- d. State 2nd and 3rd laws of motion.
- e. How will you separate cream from milk, two immiscible liquids (techniques)?

5. Answer the following questions. (any 2) (6)

- a. A solution contains 40 g of common salt in 230 gm of water. Calculate the concentration in terms of mass by mass percentage of solution.
- b. A motor car is moving with a velocity of 108 Km/h and it takes 4s to stop after the breaks are applied. Calculate the force extended on the motor car if its mass along with passengers is 1000 Kg.
- c. A bullet of mass 20g is horizontally fired with a velocity 150 kms- 1 km a pistol of mass 2 kg. What is the recoil velocity of the pistol?

6. Long answered questions. (10)

(a) Differentiate between parenchyma, collenchymas and sclerenchyma on the basis of their cell wall.

(b) Briefly explain the properties of following (with examples)

- i. Solution
- ii. suspension
- iii. colloid.