

SECONDARY SCHOOL EXAMINATION
SECOND PERIODIC TEST: 2023-24
CLASS- IX
SCIENCE

Duration: 1 hour.

M.M:20

[Physics: 06 Marks]

Note: Attempt all questions. Marks are indicated against each question

- Q. 1. Which of the following is an example of a contact force? [1]
(a) Gravitational force (b) Magnetic force
(c) Frictional force (d) Electrostatic force
- Q. 2. State Newton's third law of motion and provide an example to illustrate it. [1]
- Q. 3. Define inertia and explain how it relates to Newton's first law of motion. [1]
- Q. 4. A car is moving with a constant velocity of 20 ms^{-1} . What can you conclude about the net force acting on the car? [1]
- Q. 5. Explain the concept of momentum and how it is affected when an external force is applied to an object. Provide an equation relating momentum, force and time. [2]

[Chemistry: 06 Marks]

Note: Attempt all questions. Marks are indicated against each question.

- Q.1. Select the correct option: [1×2=2]
- (i). Milk is a/an
(a) Sol (b) Aerosol (c) Emulsion (d) None of these
- (ii). Which of the following is a solution?
(a) Vinegar (b) Milk (c) Gel (d) Blood
- Q.2. Define the following. Give example: [1×2 =2]
(a) Colloids (b) Homogenous mixtures
- Q.3. Differentiate between Physical and Chemical Change. [2]

[Life Science: 08 Marks]

Note: Attempt all questions. Marks are indicated against each question.

- Q.1 Choose the correct option: [2×1=2]
- (i). Tendon connects
(a) bone to bone (b) muscle to bone (c) muscle to muscle (d) cartilage to bone
- (ii). Which of the following component in xylem tissue is living?
(a) Xylem Parenchyma (b) Xylem fibre (c) Tracheid (d) Vessel
- Q.2. Answer the following questions in one word. [2×1=2]
- (i) The plant tissue which provides flexibility to the plants.
(ii) The covering or protective tissue in animal body.
- Q.3. Answer the following questions. [2×2=4]
- (i) Differentiate between collenchyma and sclerenchyma.
(ii) What are meristematic tissues? Classify meristematic tissues on the basis of their location.