

Class: VIII

Subject: Science (Sample Paper)

TERM I

Maximum marks: 90

SECTION- A (PHYSICS)

I. Choose the correct option.

(1x4=4)

1. The S.I unit of force is _____.
 - a) Dyne.
 - b) Newton (N).
 - c) Kilogram (kg).
 - d) Meter (m).

2. Which is the friction force exerted by the fluids?
 - a) Rolling friction.
 - b) Thrust.
 - c) Dynamic friction.
 - d) Drag.

3. Atmospheric pressure _____ as we move to the higher altitude.
 - a) Increases.
 - b) Decreases.
 - c) Remains the same.
 - d) None of these.

4. What results in the change of motion?
 - a) Pressure.
 - b) Friction
 - c) Force
 - d) Atmospheric pressure.

II. Give one word answers for the following.

(1x4=4)

1. Name the device used for reducing the friction of the car axles?
2. Identify the agent exerting the force in applying toothpaste?
3. Name the device or an instrument used to measure atmospheric pressure?
4. What is the SI unit of pressure?

III. Give reason for the following.

(2x2=4)

1. Why do we sprinkle powder on the carom board before starting the game?
2. Why do the sea drivers have specially designed suits?

IV. Answer the following questions.

(2x2=4)

1. Define friction? What is the SI unit of friction?
2. Explain the relation between force and interaction?

V. Answer the following questions. (3x3=9)

1. Define force? What is the SI unit of force?
2. What is friction? Explain the causes of frictions?
3. Name two forces that acts on the rocket after leaving the launching pad?

VI. Answer the following questions. (5)

1. Explain with examples that friction is a friend? (2)
2. List the different types of frictional forces? (1)
3. Calculate the total amount of pressure applied on the area where force is of 50N and area is of 2m^2 ? (2)

SECTION- B (CHEMISTRY)

VII. Choose the correct option. (1x4=4)

1. Name the fiber used in the manufacturing of parachutes?
 - a) Rayon
 - b) Plastic
 - c) Nylon
 - d) Polymer
2. LPG stands for _____.
 - a) Liquid purified gas.
 - b) Liquid petrol gas.
 - c) Liquefied petroleum gas.
 - e) Liquefied purified gas.
3. Name the element which contains both the properties of metals and non metals?
 - a) Noble metals.
 - b) Metalloids.
 - c) Alloys.
 - d) Mixtures.
4. CNG stands for _____.
 - a) Compressed nitrogen gas.
 - b) Carbon natural gas.
 - c) Compressed natural gas.
 - d) Carbon nitrogen gas.

VIII. Give one word answers for the following. (1x4=4)

1. Name the petroleum product used for the road surfacing?
2. Name the metal which is in liquid state at room temperature?
3. Name the process involved in the conversion of dead vegetation into coal?
4. Name the fiber manufactured from the wood pulp?

IX. Answer the following questions. (2x4=8)

1. List out the characteristic features and uses of coke?
2. Name the places in India where petroleum is found?
3. Why the plastic containers are used for storing food materials?
4. What are fossil fuels? Explain with examples?

X. Answer the following questions. (3x3=9)

1. Explain how coal is obtained along with its composition?
2. Explain what happens if we burn a coal in a closed room?
3. What are the disadvantages of using petroleum fuel?

XI. Answer the following questions. (5)

1. List few advantages of using CNG and LPG as a fuels?(2)
2. Explain why the match stick does not catch fire by its own at room temperature? (1)
3. Explain why carbon dioxide gas is used as fire extinguishers?(2)

SECTION- C (BIOLOGY)

XII. Choose the correct option. (1x4=4)

1. Malaria is caused by _____.
 - a) Houseflies.
 - b) Rats.
 - c) Female anopheles mosquitoes.
 - d) Cockroaches.
2. Who is known as the father of microbiology?
 - a) Alexander Fleming.
 - f) Robert Hook.
 - g) Leeuwenhoek.
 - h) Charles Darwin.
3. Which of the following is not a kharif crop?
 - a) Cotton
 - b) Pea
 - c) Jowar
 - d) Maize.
4. How many biosphere reserves are there in India?
 - a) 5.
 - b) 15.
 - c) 25.
 - d) 35.

XIII. Give one word answers for the following. (1x4=4)

1. Which nutrient is used for replenishing the soil after growing leguminous plants?
2. Name the scientist who discovered the process of fermentation?
3. Which cell organelle is called as a power house of a cell?
4. Name the organic substances obtained from the wastes of animals and dead plants?

XIV. Give reason for the following. (2x4=8)

1. Why should we save paper?
2. Why are chloroplasts found only in the plant cell?
3. Why is tiger an endangered species?
4. Why are young babies given vaccination?

XV. Answer the following questions. (14)

1. Explain the following term with examples? (3)
 - i. Preparation of soil.
 - ii. Weeding.
 - iii. Threshing.
2. Write the differences between the following terms with examples? (3)
 - i. Wild life sanctuary and zoo.
 - ii. Flora and fauna.
 - iii. Prokaryotes and eukaryotes.
3. Explain about nerve cell and its function with neat and labeled diagram? (3)
4. What are microorganisms and how are they useful in our lives? Explain with examples? (3)
5. Define deforestation with their consequences? (2)