

Notes :- 1) All questions are compulsory.

2) The numbers to the right of the question indicate full marks.

3) Draw neat and labelled diagrams wherever necessary.

1. A) Fill in the blanks using the correct words given in the bracket.

4

(radiation, neutral, direction, scalar)

1) soil has pH 7.

2) Mass is a quantity.

3) The earth receives heat from the sun by

4) Velocity has magnitude and.....

B) Match the Columns.

4

'A' Group

'B' Group

1) Like charges

a) Airtight packaging of food.

2) Air

b) Cuscuta

3) Parasitic plant

c) Scattering of light

4) Nitrogen gas

d) Repulsion

C) State whether the following statements are true or false.

2

1) Sea water is a bad conductor of electricity.

2) You should not swim when there is a lightening in the sky.

2. A) Define. (Any 2)

4

1) Autotrophic nutrition

2) Conduction of heat

3) Mass

B) Give scientific reasons. (Any 3)

6

1) Fungus cannot perform photosynthesis.

2) Water is a universal solvent.

3) Food remains safe at 5° Celsius.

4) Camel is called 'the ship of the desert'

3. A) Answer in following questions in one sentence.

4

1) Which device is used for protection from a lightening strike ?

2) Which are two main types of roots ?

3) What helps frogs to breathe underwater ?

4) What is the unit of force in SI system ?

B) Answer the following questions in short (Any 3)

6

1) What are the modes of heat transfer ?

2) Write the formula and unit of speed.

- 3) Name any four things on which electric charge is produced by friction.
- 4) What will you do to prevent food spoilage and food wastage ?
- 5) Write the difference between herbivores and carnivores.

4. A) Draw well labelled diagram (Any 2)

4

- 1) The electroscope
- 2) Parts of a leaf
- 3) Tap root

B) Find the odd man out.

2

- 1) Salt, Vinegar, Citric acid, Sodium, benzoate
- 2) Acceleration, Force, Velocity, Speed.

C) Answer the following questions in short: (Any 2)

6

- 1) Complete the given chart with the help of given data.

(Mass, Second, m)

Quantity	Name of unit	Symbol of unit
Length	Metre	
.....	Kilogram	Kg
Time		S

- 2) What precautions will you take during thunder storms ?
- 3) A cart with mass 20 kg went 50 m in a straight line on a plain and smooth road, when a force of 2 N was applied to it. How much work was done by the force ?
- 4) Classify according to food type.

(Man, Cow, Vulture, tiger, goat, sparrow)

Herbivores	Carnivores	Omnivores	Scavengers

5. Answer the following questions. (any 2)

8

- 1) What are the various uses of soil ?
- 2) Give two names of each of the following.
 - a) Single seeded fruits.
 - b) Types of leaves.
 - c) Parts of flowers.
 - d) Dicotyledonous plants.
- 3) Explain the process of photosynthesis in plants with help of suitable diagram.
- 4) What is tsunami ? What are destructive effects of tsunami ?