

- Instructions:** i) Read the paper carefully.
ii) Draw diagrams wherever required.

1. Answer the following as directed. (1x10= 10)

- i) Anaemia is caused by deficiency of
- ii) Name 2 metals.
- iii) Is sugar solution a mixture? Why?
- iv) Do objects which are lighter than water sink in it? Yes or no. Why?
- v) Food prepared by plants is in the form of
- vi) Arrangement of veins in a leaf is called
- vii) Name 1 physical irreversible change
- viii) Natural change: rainfall :: Man made change :
- ix) What is the principle of sieving?
- x) 3 states of matter , ,

2. Answer these questions in very short (2x5= 10)

- i) Define opaque objects with two examples.
- ii) What is classification? How does it help?
- iii) Name and draw 2 food items rich in dietary fibres.
- iv) What is pollination?
- v) Draw and name female reproductive parts of a flower.

3. Short answer questions. 3x5

- i) Why is transpiration important for plants?
- ii) Define draught. Why it is considered a disaster?
- iii) Will water dry faster from a cup or saucer? Explain.
- iv) Mention 3 various effects which a change can produce.
- v) What is dehydration and how it can be cured?

4. Long answer questions.

(5x5=25)

- i) What is the importance of minerals in our body? Explain with 3 examples.
- ii) Define deficiency diseases with 3 examples. How it can be cured?
- iii) How will you differentiate between solid liquid and gas? Are they interconvertible
- iv) How will you separate a mixture of sugar sand and iron nails? Write in steps
- v) Show by an activity that water is essential for plant –growth.

5. Answer the following in detail.

(5x8=40)

- i) Differentiate between the following 2x4 (write 2 points each)
 - a. fog and dew
 - b. parallel and reticulate venation
 - c. natural and synthetic fibres.
 - d. Physical and chemical changes
- ii) How will you detect presence of fats and proteins in a given food sample.
- iii) What are important components of food? Name and draw 2 sources from where we get nutrients and their deficiency diseases.
- iv)
 - a. How will you test starch in a leaf? Explain with a diagram.
 - b. Will a plant kept in dark show starch test? Why.
- v) Give reasons for the following.
 - a. We wear woollen clothes in winter.
 - b. Cooking of food is irreversible change.
 - c. It is necessary to include roughage and water in our diet.
 - d. Fabrics made on power loom are cheap.
