



**K.P.C PUBLIC SCHOOL, KHARGHAR**  
**ASSESSMENT - I (2023-24)**

**GRADE: VI**  
**SUBJECT: SCIENCE**

**MARKS :50**  
**TIME: 2 HRS**

**SECTION – A**

**A] Tick (✓) the correct answer:**

**(1 x 10=10)**

- Paheli observed the shadow of a tree at 8:00 am, 12:00 noon and 3:00 pm. Which of the following statements is closest to her observation about the shape and size of the shadow?
  - The shape of the shadow of the tree changes but the size remains the same.
  - The size of the shadow of the tree changes but the shape remains the same.
  - Both the size and the shape of the shadow of the tree change.
  - Neither the shape nor the size of the shadow changes.
- Boojho found a bag containing the following materials.  
(i) Mirror    (ii) Paper stained with oil    (iii) Magnet    (iv) Glass spectacles  
Help Boojho in finding out the material(s) which is/are opaque.
  - i only
  - iv only
  - (i) and (iii)
  - (ii) and (iv)
- What is lateral inversion?
  - Image becomes inverted
  - Image bends laterally
  - Right of the objects appears left of the image
  - All of these happen
- All the deficiency diseases can be prevented by \_\_\_\_\_.
  - cleanliness
  - taking medicine at proper time
  - vaccination
  - taking balanced diet
- Two students while sitting across a table looked down on its top surface. They noticed that they could see their own and each other's image. The table top is likely to be made of:
  - unpolished wood
  - red stone
  - glass sheet
  - wood top covered with cloth
- Scurvy is caused due to the deficiency of \_\_\_\_\_.
  - Vitamin A
  - Vitamin B
  - Vitamin C
  - Vitamin D
- Which of the following statements is not true?
  - Materials are grouped for convenience
  - Materials are grouped to study their properties
  - Materials are grouped for fun
  - Materials are grouped according to their uses.
- Which one of the following food item does not provide dietary fibre?
  - Whole grains
  - Whole pulses
  - Fruits and vegetables
  - Milk
- Our body contains \_\_\_\_\_ of water
  - 70%
  - 87%
  - 67%
  - 91%
- Which is a set of transparent materials?
  - Glass and air
  - Water and glass
  - Water and air
  - All of these

**B] Fill in the blanks:**

**(1 x 7 = 7)**

- Proteins are made up of \_\_\_\_\_ .
- Light travels in a \_\_\_\_\_ line.
- Materials which conduct heat quickly are called \_\_\_\_\_ of heat.

14. Firefly is a \_\_\_\_\_ luminous body.  
15. \_\_\_\_\_ objects cast no shadow.  
16. Mustard oil is \_\_\_\_\_ in water.  
17. Image formed by a pinhole camera is \_\_\_\_\_ .

**C] True or False:**

**(1 x 7 = 7)**

18. Things can be grouped on the basis of their shape and size.  
19. Deficiency of vitamin A makes our bones weak.  
20. A torch bulb is a luminous object.  
21. Things made of gold and aluminium have no lustre.  
22. The amount of matter in any object is called its weight.  
23. Image formed by a plane mirror is inverted.  
24. Expensive food is not always the best food.

**SECTION - B**

**D] Short Answer Type Questions:**

**(3 x 2 = 6)**

25. What are Nutrients? Name the major nutrients in our food.  
26. What are luminous and non-luminous objects? Give two examples of each.  
27. Why is a tumbler not made with a piece of cloth?

**SECTION – C**

**E] Short Answer Type Questions: (ANY 3)**

**(3 x 3 = 9)**

28. What are the roles of  
a) carbohydrates b) vitamins c) minerals.  
29. What is reflection? Why is moon not considered as a luminous body?  
30. What is roughage? Why its presence in our food is important?  
31. Differentiate among opaque, translucent and transparent materials, giving one example of each.

**SECTION – D**

**F] Long Answer Type Questions: (Any 1)**

**(1 x 5 = 5)**

- 32.a) What is a Balanced diet?  
b) Write three important properties of a balanced diet?

OR

- 33.a) What is the difference between image and shadow?  
b) What do we need in order to see a shadow?

**SECTION – E**

**G] Case-study based/ Data based questions:**

**(1 x 6 = 6)**

34. With some simple methods we can test whether cooked food or a raw ingredient contains one or more of these nutrients. For carrying out these tests, you will need solutions of iodine, copper Sulphate and caustic soda. You will also need a few test tubes and a dropper. Try these tests on cooked food items as well as raw materials. If the required solutions are not available in readymade form, you can prepare them as given in the Table. There are many types of carbohydrates. The main carbohydrates found in our food are in the form of starch and sugars.

A dilute solution of iodine can be prepared by adding a few drops of tincture iodine to a test tube half filled with water.
Copper sulphate solution can be prepared by dissolving 2 gram (g) of copper sulphate in 100 millilitre (mL) of water.
10 g of caustic soda dissolved in 100 mL of water makes the required solution of caustic soda.

a. Which of the following is NOT required to test the presence of nutrients in food?

- i. Vinegar solution.
- ii. Iodine solution.
- iii. Copper Sulphate.
- iv. Caustic soda solution.

b. Which colour indicates the presence of proteins in the food items?

- i. Blue
- ii. Green
- iii. Violet
- iv. Blue – black

c. We put drops of dilute Iodine solution to test the presence of

- i. Oil
- ii. Starch
- iii. Vitamin
- iv. Protein

d. How can we test the presence of fats in food items?

e. Given below are the steps to test the presence of proteins in a food item:

- i. Take a small quantity of the food item in a test tube, add 10 drops of water to it and shake it.
- ii. Make a paste or powder of food to be tasted.
- iii. Add 10 drops of caustic soda solution to the test tube and shake well.
- iv. Add 2 drops of copper sulphate solution to it.

Which of the following is the correct sequence of the steps?

- 1) i, ii, iv, iii
- 2) ii, i, iv, iii
- 3) ii, i, iii, iv
- 4) iv, ii, i, iii

f. To make the solution of caustic soda , we need to dissolve \_\_\_\_\_ in 100 ml of \_\_\_\_\_ .

- i. Iodine and water
- ii. Salt and water
- iii. Caustic soda and salt
- iv. Caustic soda and water.

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