**BVM GLOBAL GROUP OF SCHOOLS**

**HALF YEARLY EXAMINATION - 2024-25**

**Date:** 25.09.24  
**Class:** VI  
**Subject:** Science  
**Time Allowed:** 2 Hours 30 Minutes  
**Maximum Marks:** 80

**SECTION - A**

**I. Choose the correct option: (10 x 1 = 10 marks)**

1. Which part of a banana plant is not used as food?  
   a) Flower  
   b) Fruit  
   c) Stem  
   d) Root
2. Which of the following nutrients is not present in milk?  
   a) Vitamin A  
   b) Vitamin C  
   c) Protein  
   d) Vitamin D
3. Which of the following protein sources is different from the others?  
   a) Gram  
   b) Peas  
   c) Soybeans  
   d) Paneer
4. The following are some features of plants:  
   (i) They lose a lot of water through transpiration.  
   (ii) Grasses have thin and flexible stalks.  
   (iii) The leaves are reduced to smaller sizes to reduce water loss.  
   (iv) Many plants grow very tall to receive maximum sunlight.

Which combination of the above features is typical of grassland plants?  
a) (i) and (ii)  
b) (iii) and (iv)  
c) (ii) and (iii)  
d) (i) and (iv)

1. If trees are cone-shaped with sloping branches, what does it indicate about their habitat?  
   a) Desert habitat  
   b) Polar habitat  
   c) Mountain habitat  
   d) Grassland habitat
2. Which of these is necessary to form a shadow?  
   a) Opaque object  
   b) Transparent object  
   c) Translucent object  
   d) None of the above
3. Digestion of food is an example of which type of change?  
   a) Chemical  
   b) Physical  
   c) Reversible  
   d) Fast
4. Which of the following can never form a circular shadow?  
   a) A shoe box  
   b) A flat disc  
   c) A ball  
   d) An ice cream cone
5. While cooking, Ali's mother wants to remove lumps from wheat flour. Which method of separation should she use?  
   a) Winnowing  
   b) Handpicking  
   c) Threshing  
   d) Sieving
6. The following are sources of light:  
   (i) Glowworm  
   (ii) Electric bulb  
   (iii) The stars

Which of the given sources emit light naturally?  
a) Only (i) and (iii)  
b) Only (i) and (ii)  
c) Only (ii) and (iii)  
d) All of the above

**II. Name the following: (6 x 1 = 6 marks)**

1. The deficiency disorder caused by the lack of iron.
2. The nutrient that helps with the absorption of vitamins A, D, E, and K.
3. An animal that eats succulent plants to fulfill its water requirement.
4. The state of matter in which contraction and expansion occur the most.
5. The method used for separating seeds of paddy from its stalks.
6. A device used to measure length.

**III. Give two examples for the following: (4 x 1 = 4 marks)**

1. Homogeneous mixtures
2. Physical changes
3. Edible roots
4. Plants found in tropical rainforests

**IV. Match the following: (6 x 1 = 6 marks)**

| **Column A** | **Column B** |
| --- | --- |
| 21. Ghee | a) Fats |
| 22. Birds | b) Migratory |
| 23. Frogs | c) Sticky tongue |
| 24. Aqua Regia | d) King’s water |
| 25. SONAR | e) Depth of oceans |
| 26. Light Beam | f) Broad path of light |

**V. Answer in one word: (6 x 1 = 6 marks)**

1. In which part of the cactus does photosynthesis occur?
2. Name the mineral required for keeping our bones healthy.
3. Which part of the mustard plant is used as a vegetable?
4. What type of mixture is formed when oil and vinegar separate after some time?
5. The image of a person is formed at 1.5 m inside a mirror. If the person was initially at 0.5 m, what is the object’s movement?
6. What kind of motion is shown by the moving pendulum of a clock?

**VI. Fill in the blanks: (6 x 1 = 6 marks)**

1. The component of food that does not provide nutrients yet is essential is called \_\_\_\_.
2. Hydrophytes have \_\_\_\_ to take dissolved gas from water.
3. \_\_\_\_ is a rich source of omega-3 fatty acids and is often recommended over red meat due to its cardiovascular benefits.
4. A solution in which no more solute can be dissolved is called a \_\_\_\_ solution.
5. From the given figure, the length of the pencil is \_\_\_\_ cm/mm.

**VII. Choose the correct option for Assertion & Reasoning: (2 x 1 = 2 marks)**

1. **Assertion (A):** Animals living in polar regions have thick fur and a layer of fat under their skin.  
   **Reason (R):** This helps them resist extremely low temperatures.

a) Both A and R are true, and R is the correct explanation of A.  
b) Both A and R are true, but R is not the correct explanation of A.  
c) A is true, but R is false.  
d) A is false, but R is true.

1. **Assertion (A):** Burning of an incense stick is a chemical change.  
   **Reason (R):** Chemical changes are reversible.

(Choose from the same options above)

**SECTION - B**

**VIII. Answer the following in brief: (4 x 2 = 8 marks)**

1. Some desert plants have very small leaves, whereas some have only spines. How does this benefit them?
2. Why are vitamins and minerals essential in small quantities but still important in a balanced diet?

**End of the Question Paper**