FIRST TERM EXAMINATION, 2011–2012

SCIENCE

Time Allowed : 3 hrs.

CLASS–VI

M.M. : 80

General instructions :

• All the questions are compulsory.
• Do the work neatly.

1. Tick the correct option : (6 × 1 = 6)
   (a) The uppermost part of the pistil is called :
      (i) Ovules (ii) Style (iii) Stigma (iv) Ovary
   (b) Which of the following provides maximum energy ?
      (i) Fats (ii) Carbohydrates (iii) Proteins (iv) Vitamins
   (c) A dark patch behind an opaque object is called :
      (i) Shadow (ii) Mirror (iii) Camera (iv) Periscope
   (d) What is the standard unit of mass ?
      (i) mg (ii) kg (iii) dg (iv) g
   (e) To and fro motion of an object is called :
      (i) Rectilinear motion (ii) Periodic motion (iii) Circular motion (iv) Random motion
   (f) The process of settling down of particles of a liquid is called :
      (i) Decantation (ii) Filtration (iii) Sublimation (iv) Sedimentation

2. Fill in the blanks : (2 × 1/2 = 1)
   (i) Bones at the elbow are joined by a ...................... joint.
   (ii) Cartilages are ...................... (harder/softer) than bones.

3. Rearrange the boxes given below to make a sentence that helps us to understand opaque objects. (1)

   OWS  MAKE  OPAQUE  SHAD  OBJECTS

4. Identify the disease by the symptom given below : (2 × 1/2 = 1)
   (i) Poor vision
   (ii) Soft and bent bones

P.T.O.
5. Match the following organisms with the organ of their movement: \(4 \times \frac{1}{2} = 2\)

<table>
<thead>
<tr>
<th>Column I</th>
<th>Column II</th>
</tr>
</thead>
<tbody>
<tr>
<td>(i) Snail</td>
<td>(a) Plates and scales</td>
</tr>
<tr>
<td>(ii) Earthworm</td>
<td>(b) Fins</td>
</tr>
<tr>
<td>(iii) Snakes</td>
<td>(c) Muscular foot</td>
</tr>
<tr>
<td>(iv) Fish</td>
<td>(d) Bristles</td>
</tr>
<tr>
<td></td>
<td>(e) Hind limbs</td>
</tr>
</tbody>
</table>

6. Indicate whether the following statements are true or false. If false, then write the correct statement. \(2 \times 1 = 2\)

(i) Stem absorbs the water and mineral from the soil.
(ii) Leaves hold the plant upright.

7. Coriander, Tulsi, Rose, Chinorose, Banana, Mustard

Out of the above mentioned plants, separate those which have:

(i) Reticulate venation on their leaves.
(ii) Flowers with separate sepals. \(1 \times 2 = 2\)

8. Solve the followings:

(i) Convert 20 m into cm and mm.
(ii) The distance between Delhi and Agra is 280 km. Express this distance in meters. \(1 \times 2 = 2\)

9. With the help of an activity, show that stem conducts water. \(2\)

10. Why is sorting of materials needed? \(2\)

11. Answer the following questions:

(i) Roughage has no nutrient in it, still it is an essential part of our balanced diet. Why?
(ii) Why should repeated washing of rice and pulses be avoided? \(2 \times 1 = 2\)

12. List three conditions required for a shadow to be formed. \(3\)

13. Identify the type of motion in the following cases:

(i) Sprinters in a 100 m race.
(ii) Motion of the pendulum of a clock.
(iii) Motion of a child on a swing.
(iv) The surface of tabla being played.
(v) Falling of a stone.
(vi) Spinning of a Charkha. \(\frac{1}{2} \times 6 = 3\)

14. Give one basic difference between each of the following:

(i) Stamen and Pistil
(ii) Tap root and Fibrous root
(iii) Herbs and shrubs \( (1 \times 3 = 3) \)

15. Justify the following statements :
   (i) Petals of a flower are generally brightly coloured.
   (ii) The leaf is called the kitchen of a plant.
   (iii) The potato is called a modified stem even though it is found under the ground. \( (1 \times 3 = 3) \)

16. With the help of an activity, show how you will separate a mixture of sand and water. Also draw the diagram. \( (3) \)

17. Write the nutrient present in maximum amount in the following food materials :
   (i) Carrot
   (ii) Fish
   (iii) Ghee \( (1 \times 3 = 3) \)

18. Write the things that would happen, if your body had no skeleton. \( (3) \)

19. Give reason for the following :
   (i) The sun is a luminous object.
   (ii) Opaque objects cast a dark shadow.
   (iii) We can not see the flame of a candle through a bent pipe. \( (1 \times 3 = 3) \)

20. Separate the materials/objects given according to their properties in the column given below :

<table>
<thead>
<tr>
<th>Transparent</th>
<th>Translucent</th>
<th>Opaque</th>
<th>Luminous</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(1) Water (2) Glass (3) Notebook (4) Lens of a camera (5) Oily paper (6) Firefly \( \left( \frac{1}{2} \times 6 = 3 \right) \)

21. Why do we separate substances ? \( (3) \)

22. Lemonade is prepared by mixing lemon juice and sugar in water. You wish to add ice to cool it. Should you add ice to the lemonade before or after dissolving sugar? In which case would it be possible to dissolve more sugar? Why? \( (3) \)

23. Find the odd one out and give reason for the same :
   (i) Vinegar, lemon juice, kerosene, milk solution.
   (ii) Cotton, Iron, stone, wood.
   (iii) Rusted iron, Copper, Aluminium, Gold. \( (3) \)

24. Who am I ?
   (i) We work in pairs. When one of us contracts, other relaxes to pull the bone. \( (3) \)
(ii) I am made up of many small bones and these bones join the ribcage.
(iii) I help in bending or rotating a body part. \(3 \times 1 = 3\)

25. Label the parts (1) and (2) of the leaf given below:

(ii) Name the two processes that take place in a leaf.
(iii) Give one difference between the processes mentioned above. \(1 + 2 + 1 = 4\)

26. Suggest a method to separate the following mixtures:
   (i) Stones from grains
   (ii) Husk from grains
   (iii) Salt from water
   (iv) Chalk powder and water \(2 \times 4 = 4\)

27. Answer the following in one word only:
   (i) Category to which man and dog belongs to.
   (ii) It is also called sweet juice.
   (iii) Other name for sprouting.
   (iv) Plant eating animals.
   (v) Raw material used to prepare a dish. \(1 \times 1 = 5\)

28. Nitin has challenged Sonu to solve this crossword. He needs your help. Can you solve it for him? All the answers are names of living organisms.

   1 2
   3 4
   5

   (I) ACROSS.
   (ii) My body is streamlined in shape.
   (iii) Our bones are light and hollow.
   (v) I have three pairs of legs.

   DOWN
   (ii) I need the help of my muscular foot to move forward.
   (iv) I do not move forward in straight line. \(4 + 1 = 5\)