

ICSE Board
Class VII Biology
Sample Paper – 1

Time: 2 hrs

Total Marks: 75

General Instructions:

1. All questions are **compulsory**.
 2. Questions 1 to 15 carry one mark each.
 3. Questions in 2 A and B carry one mark each.
 4. Questions in 3 A carry one mark each and B carries 5 marks.
 5. Question 4 A and B carries 5 marks each.
 6. Questions in 5 A and B carry one mark each.
 7. Questions in 6A and B carry one mark each.
 8. Question 7 A and B carry five marks each.
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Question 1

Choose the correct answer out of the four available choices given below each question. [15]

1. Which of the following are dividing tissues in case of plants?
 - (a) Meristematic tissue
 - (b) Parenchyma
 - (c) Sclerenchyma
 - (d) Collenchyma
2. Which of the following is not true about parenchyma?
 - (a) They are thin walled, oval or round cells.
 - (b) They are found in the stem, leaves and flowers.
 - (c) They provide mechanical strength.
 - (d) They contain leucoplasts and store food.
3. *Amoeba* moves with the help of
 - (a) Cilia
 - (b) Flagella
 - (c) Pseudopodia
 - (d) Webbed feet
4. Which of the following is not a characteristic feature of mammals?
 - (a) Four-chambered heart
 - (b) Warm-blooded
 - (c) Skin covered with scales
 - (d) Mammary glands

5. Which of the following comes under the category of spiny-skinned organisms?
 - (a) Sea urchin
 - (b) Prawn
 - (c) *Pila*
 - (d) Cockroach

6. How many molecules of ATP are produced during aerobic respiration?
 - (a) 36
 - (b) 34
 - (c) 38
 - (d) 2

7. Tannin is a _____.
 - (a) Human respiratory product
 - (b) Plant excretory product
 - (c) Human excretory product
 - (d) Plant respiratory product

8. Which of the following body areas are used for skin prick test?
 - (a) Hand
 - (b) Forearm and back
 - (c) Palm
 - (d) Shoulder

9. Which of the following are not striated muscles?
 - (a) Muscles of the arm
 - (b) Muscles of the face
 - (c) Muscles of the legs
 - (d) Muscles of the urinary bladder

10. _____ are dense connective tissues containing only fibroblasts and collagen fibres.
 - (a) Bones
 - (b) Ligaments
 - (c) Tendons
 - (d) Cartilage

11. The fine branches given out from the cell body of a nerve cell are
 - (a) dendrites
 - (b) cyton
 - (c) axon
 - (d) neuron

12. Unicellular organisms with a proper nucleus belong to
- (a) Protista
 - (b) Monera
 - (c) Fungi
 - (d) Algae
13. Which of the following is not an arthropod?
- (a) Prawn
 - (b) Butterfly
 - (c) Earthworm
 - (d) Spider
14. Stomata are present on the surface of
- (a) Leaves
 - (b) Roots
 - (c) Stem
 - (d) Flower
15. Which of the following constitutes an organ?
- (a) Tissues
 - (b) Organism
 - (c) Organ System
 - (d) None of the above

Question 2

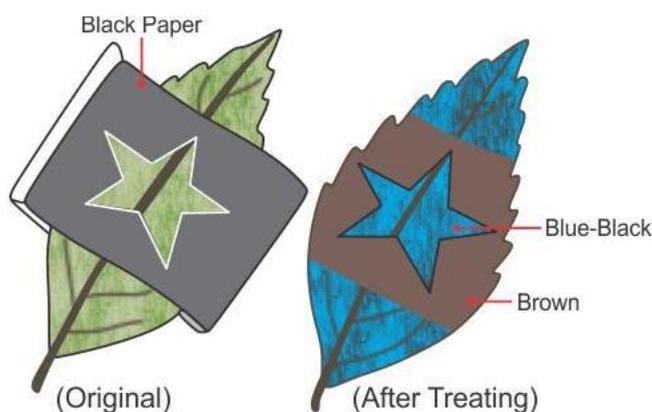
- A. Name the following. [5]
- 1. Tissue that transports water and minerals in plants.
 - 2. Network of hyphae in fungi.
 - 3. Muscles found only in the heart.
 - 4. Another name for the brain box.
 - 5. Substances that cause allergies.
- B. Fill in the blanks. [5]
- 1. The basophils release an inflammatory chemical called _____ during an allergic reaction.
 - 2. _____ transmit messages towards the cell body.
 - 3. In a mitochondrion, _____ on the inner membrane serve to increase the surface area for the formation of ATP.
 - 4. _____ are called amphibians of plant kingdom.
 - 5. The body is said to have _____ symmetry if it can be divided into two identical halves along any plane.

Question 3

A. Match the following. [5]

| Column A | Column B |
|-----------------------|---------------------------|
| 1. Sponge | a. Monocot |
| 2. Maize | b. Corpuscles |
| 3. <i>Paramoecium</i> | c. Powerhouse of the cell |
| 4. Blood | d. Porifera |
| 5. Mitochondria | e. Protista |

B. Observe the given diagram and answer the following questions: [5]



- (a) Why leaf is covered with black paper strip?
- (b) What is the aim of this experiment?
- (c) Is destarching of plant necessary before performing this experiment? Why?

Question 4

A. [5]

- (a) Classify the following plants as monocots and dicots-
Rice, Pea, Grass, Brinjal.
- (b) State any three points of differences between monocots and dicots.

B. Complete the following table. [5]

| Class | Aves | Mammalia |
|---------------|------|----------|
| Body covering | | |
| Reproduction | | |
| Examples | | |

Question 5

- A. State one point of difference between the following on the basis of what is given in the brackets. [5]
1. Striated muscles and unstriated muscles (control)
 2. Xylem and phloem (direction of transport)
 3. Molluscs and echinoderms (movement)
 4. Aerobic respiration and anaerobic respiration (amount of energy released)
 5. Cocci and bacilli (shape)
- B. Find the odd one out. [5]
1. Lungs, Bronchi, Trachea, Kidneys
 2. Annelida, Arthropoda, Reptilia, Nematoda
 3. *Euglena*, *Spirogyra*, *Amoeba*, *Chlorella*
 4. Pituitary, Thyroid, Adrenal, Spinal cord
 5. Penguin, Ostrich, Vulture, Kiwi

Question 6

- A. Explain movement in *Amoeba* and *Paramecium*. [5]
- B. Define the following. [5]
1. Classification
 2. Binary fission
 3. Vertebrates
 4. Photosynthesis
 5. Sensory nerve

Question 7

- A. Answer the following.
1. What are the symptoms of food allergy? [2]
 2. In which phylum is liverfluke placed? Why? [3]
- B. Answer the following.
1. What are the main functions of cerebellum? [2]
 2. Leaves of a healthy potted plant were coated with vaseline. Will this plant remain healthy for long? Give reasons. [3]