ICSE Board Class IX Biology Paper - 3

Time: 2 hrs Total Marks: 80

General Instructions:

- 1. Answers to this paper must be written on the paper provided separately.
- 2. You will **not** be allowed to write during the first **15** minutes. This time is to be spent in reading the question paper.
- 3. The time given at the head of the paper is the time allotted for writing the answers.
- 4. Attempt all questions from Section I and any four questions from Section II.
- 5. The intended marks of questions or for parts of questions are given in brackets [].

SECTION-I (40 Marks)

Attempt **all** questions from this section.

Questions: 1

| (a) Choose the correct answer and complete the following statements: | |
|--|-----|
| (i) Human cells contain of chromosomes. | |
| (a) 12 pairs (b) 24 pairs (c) 23 pairs | |
| (ii) is an underground stem. | |
| (a) Dahlia (b) Ginger (c) Sweet potato | |
| (iii)Heat-regulating centre is located in the | |
| (a) medulla oblongata (b) hypothalamus (c) cerebellum | |
| (iv) A food chain begins with | |
| (a) green plants (b) tiger (c) cow | |
| (v) Haemophilia is a disease. | |
| (a) metabolic (b) genetic (c) allergic | [5] |
| (b) State whether the given statements are True or False: | |
| (i) Keratin gives colour to the skin. | |
| (ii) Potato tuber has stomata. | |
| (iii)Transpiration takes place through stomata. | |
| (iv) Body cavity is absent in Platyhelminthes. | |
| (v) Molar teeth are used for tearing the food. | [5] |
| | |

(c) Name the following:

- (i) The membrane surrounding the vacuole.
- (ii) The components of xylem.
- (iii) The enzyme present in saliva.
- (iv) A disease caused by bacteria.
- (v) The tissue responsible for conduction of food in plants .

[5]

- (d) Find the odd one out and mention the category for the rest:
 - (i) Pine, Chlamydomonas, Spirogyra, Volvox
 - (ii) Cell wall, Centrosome, Plastid, Ribosomes
 - (iii) Vegetable peel, Plastic, Discarded CDs, Metals
 - (iv) Cholera, Leprosy, Syphilis, Jaundice
 - (v) Horse, Camel, Rabbit, Platypus

[5]

- **(e)** State the functions of each of the following:
 - (i) Epiglottis
 - (ii) Sepals
 - (iii)Chloroplasts
 - (iv) Endosperm
 - (v) Golgi bodies

[5]

(f) Match the following:

[5]

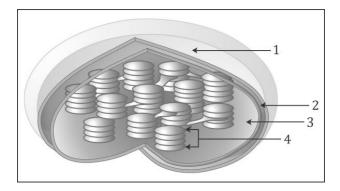
| Column A | Column B |
|---------------------------------|-----------------------------------|
| (i) Absorption and secretion in | Have a dorsal nerve cord |
| intestines | |
| (ii) Chordates | Open circulatory system with |
| | jointed legs |
| (iii) Amphibia | Deficiency of oxygen reaching the |
| | tissues |
| (iv) Arthropoda | Possess three-chambered heart |
| (v) Hypoxia | Columnar epithelium |

(g) Give one example each:

- (i) A mammal which destroys stored grains
- (ii) A flightless bird
- (iii) The young one of a fish
- (iv) An antibiotic
- (v) A plant which propagates by leaves

[5]

(h) The given figure shows a cell organelle:



- (i) Name the cell organelle.
- (ii) In which type of cell is this structure present?
- (iii) What is the function of this structure?
- (iv) Label parts 1-4.

[5]

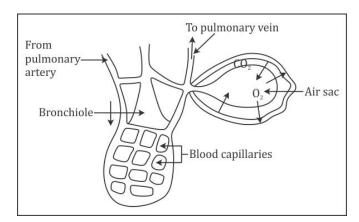
SECTION-II (40 Marks)

Attempt any **four** questions from this section.

| Question 2 | [10] |
|---|------|
| (a)(i) Why do seeds require water for germination?(ii) What does STD stand for? Is syphilis an STD? | |
| (b) With the help of a diagram, explain the process of grafting. | |
| Question 3 | [10] |
| (a)(i) State the uses of bacteria.(ii) Define fertilisation. | |
| (i) How does the skin help in temperature regulation?(ii) State the function of sebaceous glands.(iii) Name the pigment present in skin. | |
| Question 4 | [10] |
| (a)(i) Why is public cleanliness important for individual health?(ii) Can a cell survive if its cytoplasm is removed? Give reason for your answer.(b) Differentiate between a plant cell and an animal cell. | |
| Question 5 | [10] |
| (a) How does spore formation take place in fungi? | . , |
| (b) Differentiate between viruses and bacteria. | |

Question 6 [10]

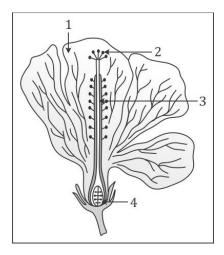
(a) Observe the given diagram and answer the following questions:



- (i) Name the process explained in the given diagram.
- (ii) What type of air is present in the bronchioles?
- (iii) What type of blood does the pulmonary artery contain?
- (iv) What type of blood does the pulmonary vein contain?
- (v) Name the corresponding structure found in plants.

(b)

(i) The given figure shows a type of ovary.



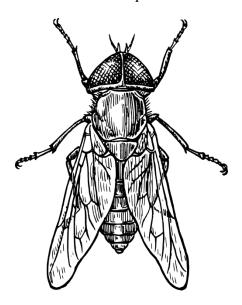
- 1. Name the type of ovary.
- 2. Give reasons to support your answer.
- 3. Name a plant in which this type of ovary is present.
- (ii) Is the micropyle important for a seed? Give reasons to support your answer.

Question 7 [10]

(a)

(i) What is malaria? How is it caused?

(ii) Study the given figure and answer the questions based on it.



- 1. Name the insect.
- 2. Name the disease spread by this insect.
- 3. How does it spread diseases?

(b)

- (i) Give reason: A bat can fly, yet it is not a bird.
- (ii) Explain the process of cheese manufacturing.