ICSE Board Class IX Biology Paper - 2

Time: 2 hrs

Total Marks: 80

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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.

Question: 1

(a) Complete the following

(i) The respiratory pigment present in the blood is _____.

(ii) The common edible mushroom is _____.

(iii) The chemical used to test starch is ______.

(iv) ______ enzyme converts fats into fatty acids.

- (v) ______ is the portion of the embryo axis immediately above the cotyledons. [5]
- (b) Choose the odd one out and mention the category for the rest:

(i) Centrosome, Ribosome, Cell wall, Lysosome

(ii) Trachea, Bronchus, Alveolus, Diaphragm

(iii) Vitamin K, Vitamin B1, Vitamin A, Vitamin D

(iv) Typhoid, Mumps, Smallpox, Polio

(v) Mouth, Stomach, Liver, Small intestine

(c) Name the following:

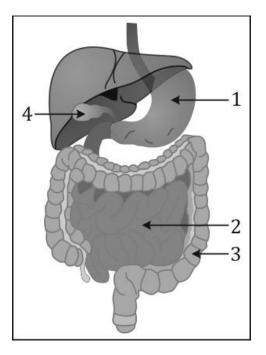
(i) The structure, which prevents food from entering the trachea during swallowing.

(ii) The enzyme, which converts leftover starch into maltose.

(iii) The last part of the large intestine.

- (iv) Lymph vessel present inside the villus.
- (v) The space present between incisors and premolars.

- (d) Out of the given 14 biological terms, write ten matching pairs: Radicle, Pupa, Cancer, Duodenum, Coccyx, Acetabulum, Erector muscle, Pancreatic juice, Rudimentary tail, Cephalothorax, Hair, Carcinogen, Fibrous root, Pelvic girdle. Example: Radicle - Fibrous root
- (e) The given figure shows parts of the human digestive system.



- 1. Label parts 1 to 4.
- 2. State two functions of part 4.
- (f) State the source organism for each of the following antibiotics:
 - (i) Streptomycin
 - (ii) Chlorotetracycline
 - (iii)Penicillin
 - (iv) Bacitracin
 - (v) Erythromycin
- (g) State the role of the following:
 - (i) Ribosome
 - (ii) Stomata
 - (iii)Xylem
 - (iv)Root cap
 - (v) Bile

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(h) Match the following:

Column A	Column B
(i) Penicillin	Animal cells
(ii) Cell wall	Bryophyta
(iii) Plants without roots, stem and	Antibiotic
leaves	
(iv) Centrosome	Plant cells
(v) Moss	Thallophyta

SECTION-II (40 Marks)

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

Question 2

(a)

- (i) State and define different categories of diseases, based on the extent of occurrence? Give one example for each.
- (ii) What is parthenocarpy? Give two examples of parthenocarpic fruits.

(b)

- (i) State two characteristics of Phylum Coelenterata.
- (ii) State three advantages of vegetative propagation.

Question 3

(a)

- (i) What are villi? State their function.
- (ii) Explain a dicot seed.

(b)

- (i) Write the various components of an ecosystem with examples.
- (ii) Mention three ways by which the eyes can be protected from infection.

Question 4

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(a) Give reasons:

- (i) Entamoeba histolytica has no contractile vacuole.
- (ii) Mitochondria are the powerhouses of the cell.
- (iii)Coconuts are seen floating on water.
- (iv) One should breathe through ones nose and not through ones mouth.
- (v) Fungi are heterotrophic.

(b) Differentiate between vertebrates and invertebrates.

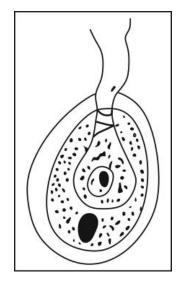
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Question 5

(a)

- (i) Explain the structure of a neuron with the help of a diagram.
- (ii) Write the climatic conditions of tropical rainforests. Where are they located?

(b) The given figure shows a microscopic plant.



- (i) Name the plant.
- (ii) Which group does it belong to?
- (iii) Is the organism motile, if yes which structure helps in locomotion?
- (iv) State two features of this plant.
- (v) Where can you see this plant?

Question 6

- (a) Name the phyla with the respective characteristics:
 - (i) Jointed legs with chitinous exoskeleton.
 - (ii) Excretory organs are nephridia.
 - (iii)Locomotory organs are tube feet.
 - (iv) Asegmented body with a hard calcareous shell.
 - (v) Diploblastic with water vascular system.
- (b) Name one enzyme, which converts each of the following:
 - (i) Fats into fatty acids
 - (ii) Starch into maltose
 - (iii)Lactose into glucose
 - (iv) Proteins into amino acids
 - (v) Caseinogen into casein

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Question 7

(a)

- (i) What are the regions of the epidermis of the skin?
- (ii) State the salient features of Phylum Porifera.
- (b) How are the given floral parts advantageous to the respective plants?
 - (i) Long and feathery stigma
 - (ii) Brightly coloured petals
 - (iii)Smooth and light pollen
 - (iv) Protruding and easily movable anthers
 - (v) Fragrant nectar