

Sample Paper - 9

# ICSE Board Class IX Biology Sample Paper - 9

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.

### **Question 1**

- (a) Name the following:
  - (i) The connective tissue which connects muscles to bones.
  - (ii) The poisonous substance produced by an organism.
  - (iii) The arrangement of flowers on a plant.
  - (iv) A non-dividing specialized tissue in plants.
  - (v) Another name for cell body of a neuron.

euron. [5]

- **(b)** State whether the following statements are True or False:
  - (i) In mammals, the neck consists of eight vertebrae.
  - (ii) Fats are non-essential components of food.
  - (iii) Enzymes are pH sensitive.
  - (iv) Genes are present in the centrosome.
  - (v) Deodorants are disinfectants.

[5]

- (c) Choose the odd one out:
  - (i) Pebbles, Broken bricks, Wood waste, Damaged mobile
  - (ii) Sternum, Rib, Cartilage, Femur
  - (iii) Diapedesis, Phagocytosis, Coughing, Pinocytosis
  - (iv) Diabetes, Heart attack, Beri-beri, Small pox
  - (v) Trypsin, Amylopsin, Steapsin, Pepsin

[5]



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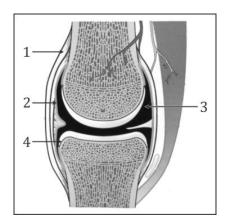
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- **(d)** Select the correct answer from the brackets and complete the following statements:
  - (i) Bilateral symmetry, triploblastic and true body cavity are the characteristic features of members of Phylum\_\_\_\_\_. (Platyhelminthes, Annelida)
  - (ii) Chlorenchyma is a modified \_\_\_\_\_ tissue. (parenchyma, collenchyma, sclerenchyma)
  - (iii) Skin is made up of \_\_\_\_\_ (cutin, keratin)
  - (iv) Ribosomes help in \_\_\_\_\_\_. (respiration, protein synthesis, secretion, cell division)
  - (v) \_\_\_\_\_ is a metabolic disorder. (Haemophilia, Goitre) [5]
- **(e)** Match the following:

[5]

Column A	Column B
(i) Ptyalin	Proteins
(ii) Trypsin	Fats
(iii) Lipase	Starch
(iv) Lactase	Sucrose
(v) Invertase	Lactose

**(f)** Study the given figure and answer the following questions:



- 1) Which type of joint is shown in the above figure?
- 2) Label parts 1, 2, 3, 4.
- 3) What is a ball and socket joint?

[5]

**(g)** Substitute each phrase with a proper term:

[5]

- (i) Incubation period of polio virus is \_\_\_\_\_ days.
- (ii) Eukaryotic organisms lacking a multicellular body design belong to Kingdom

(iii) relationship is mutually beneficial to both the partners.

- (iv) The excretory organs of *Platyhelminthes* are\_\_\_\_\_.
- (v) Saliva and tears contain \_\_\_\_\_.



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- **(h)** Define the following terms:
- (i) Anatomy
- (ii) Cell
- (iii)Immunisaton
- (iv) Incubation period

(v) Ecosystem [5]

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### **SECTION-II (40 Marks)**

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

Question 2 [10]

(a)

- (i) What are the disadvantages of self-pollination?
- (ii) Why is the fertilisation process in angiosperms known as double fertilization?

(b)

- (i) How do vaccines help in the prevention of a disease?
- (ii) Name two serum compounds produced by genetically modified bacteria.

Question 3 [10]

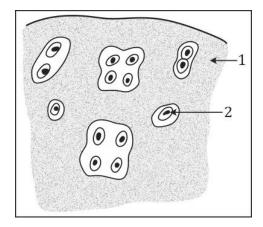
(a)

- (i) How does Ascaris spread itself?
- (ii) How is oxygen debt created in the body?
- **(b)** Discuss the salient features of Phylum Protozoa.

Question 4 [10]

Study the given figure and answer the questions based on them.

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



- 1. Name the tissue.
- 2. Label parts 1 and 2.
- 3. State the characteristics of this tissue.
- (ii) What will happen, if daily intake of food does not provide sufficient calories to a person?
- (iii) Why is vertebral column curved and not straight?
- (iv) Is the micropyle important for a seed? Give reason.



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Question 5 [10]

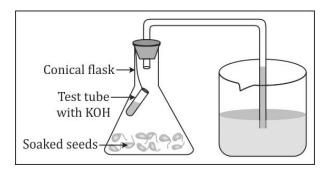
- **(a)** Write the functions of:
  - (i) Stigma
  - (ii) Chromosomes
  - (iii)Phloem
  - (iv) Sweat gland
  - (v) Roughage

**(b)** 

- (i) How do bacteria replenish nitrates in the soil? Why is the presence of nitrates an important factor for influencing soil fertility?
- (ii) State three harmful effects of bacteria.
- (iii) What is food preservation?

Question 6 [10]

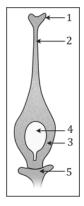
(a) The given figure represents an experimental set-up.



- (i) What is the aim of the given experiment?
- (ii) Why does water rise in the tube?
- (iii) What is the purpose of KOH?
- (iv) Is there any control for this experiment? If so, mention it.
- (v) What precautions should be taken for this experiment?

(b)

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





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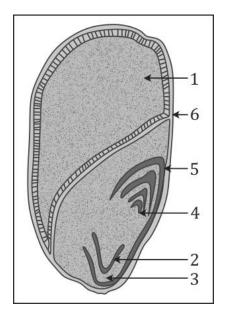
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- 1. Label parts 1-5.
- 2. Name the structure shown in the given figure.
- 3. Does this structure belong to androecium or gynoecium?
- (ii) Name the bones present in the arm.

Question 7 [10]

(a)

- (i) How are villi adapted for absorption?
- (ii) State the role of fats.
- **(b)** The given figure shows the structure of a seed.



- (i) Name the seed.
- (ii) Label parts 1-6.
- (iii) What is the special feature of this seed?
- (iv) Is it a monocot or a dicot seed? Give reason.

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