

ICSE Board
Class VIII Biology
Sample Paper – 3

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 2A and B carry one mark each.
 4. Questions in 3A carry one mark each and B carries 5 marks.
 5. Question 4A and B carry 5 marks each.
 6. Questions in 5A and B carry one mark each.
 7. Questions in 6A and B carry one mark each.
 8. Question 7A 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. Pulmonary vein carries
 - (a) Oxygenated blood
 - (b) Deoxygenated blood
 - (c) Glucose-rich blood
 - (d) CO₂ laden blood
2. Water from the soil enters the root xylem by the process of
 - (a) Diffusion
 - (b) Active transport
 - (c) Osmosis
 - (d) Both (a) and (b)
3. Breathing is controlled by which part of the brain / brainstem?
 - (a) Cerebrum
 - (b) Cerebellum
 - (c) Medulla Oblongata
 - (d) Pons
4. What type of tissue is blood?
 - (a) Muscular tissue
 - (b) Endothelial tissue
 - (c) Connective tissue
 - (d) Blood is not a tissue

5. Which of the following statement about an ecosystem is not true?
 - (a) It comprises of only abiotic components.
 - (b) It is a self-contained area.
 - (c) It comprises of biotic as well as abiotic components.
 - (d) It helps to establish interdependence between living and non-living things.

6. Which hormone is responsible for the development of the female reproductive organs?
 - (a) Norepinephrine
 - (b) Progesterone
 - (c) Oestrogen
 - (d) Progesterone and oestrogen

7. The leaves of which of the following plants can give rise to a new plant?
 - (a) Mango
 - (b) Bryophyllum
 - (c) Bougainvillea
 - (d) Rose

8. Seeds are formed by the maturation of the
 - (a) Ovary
 - (b) Ovum
 - (c) Ovule
 - (d) All of the above

9. Which endocrine gland(s) is/are located at the base of the brain?
 - (a) Hypothalamus
 - (b) Pituitary gland
 - (c) Pineal gland
 - (d) Both (a) and (b)

10. In human females, puberty begins at the age of
 - (a) 14 Years
 - (b) 10 Years
 - (c) 16 Years
 - (d) 11 Years

11. Marasmus is caused due to the deficiency of which of the following nutrients?
 - (a) Carbohydrates
 - (b) Proteins
 - (c) Fats
 - (d) Both carbohydrates and proteins

12. Glucagon is secreted by
- (a) Pituitary gland
 - (b) Islets of Langerhans
 - (c) Exocrine part of pancreas
 - (d) Islets of Langerhans and endocrine part of pancreas
13. The method of organic farming relies on
- (a) Pesticides and new irrigation techniques
 - (b) Crop rotation and biological control
 - (c) Crop rotation and animal manure
 - (d) Chemical fertilisers and pesticides
14. Salk's vaccine is used to build immunity against
- (a) Tuberculosis
 - (b) Poliomyelitis
 - (c) Malaria
 - (d) Diphtheria
15. Blisters on feet and mouth, excessive salivation are symptoms of which of the following diseases?
- (a) Cowpox
 - (b) Foot and mouth disease
 - (c) Anthrax
 - (d) Rinderpest

Question 2

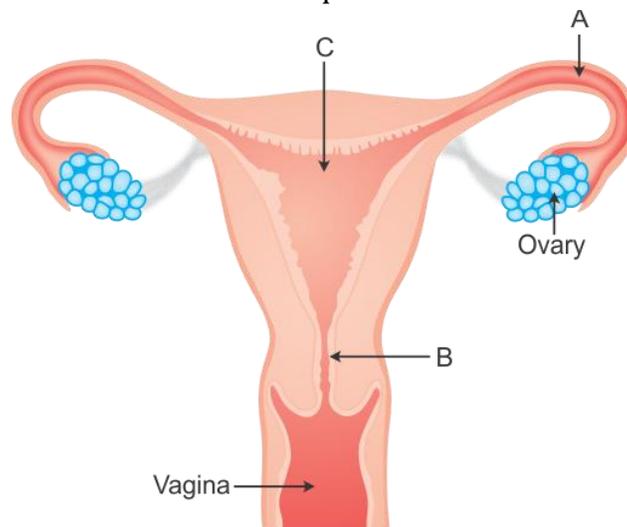
- (A) Give a scientific word for the following: [5]
- 1. An instrument used to measure blood pressure.
 - 2. Ailment caused due to the enlargement of the thyroid gland.
 - 3. The age at which a human develops secondary sexual characters.
 - 4. A place where bees are reared and grown artificially to obtain wax, honey and other important products.
 - 5. Disease-causing germs.
- (B) Fill in the blanks and rewrite the sentences: [5]
- 1. Conversion of glycogen into glucose is facilitated by the _____ enzyme.
 - 2. _____ is the seat of intelligence and consciousness.
 - 3. Penicillin is obtained from _____.
 - 4. Over consumption of alcohol causes _____.
 - 5. _____ are absorbed through active transport by the roots.

Question 3

(A) Match the items in column I with the appropriate items in column II. [5]

Column A	Column B
1. Fish farming	(a) Root pressure
2. Rearing of silkworm	(b) Vagina
3. Ascent of sap	(c) Aquaculture
4. Rearing of honeybees	(d) Apiculture
5. Birth canal	(e) Sericulture

(B) Study the diagram below and answer the questions that follow: [5]



1. Label the parts labelled A, B and C.
2. Write the functions of part A and part C.

Question 4

(A) What is a food chain? Explain with the help of a neat and well-labeled diagram. [5]

(B) Name the following [5]

1. Three freshwater edible fish of India.
2. Residue of oil seeds used as cattle feed after the extraction of oil.
3. A cross-breed of hens.
4. A Kashmiri goat known for its expensive wool.
5. Most widely used silkworm for sericulture.

Question 5

(A) Give one point of difference between the following on the basis of what is given in the brackets: [5]

1. Arteries and Veins (Type of blood carried)
2. Mint plant and Potato (Reproduction)
3. Muscle and Glands (Response to nerve impulse)
4. Adrenal medulla and Adrenal cortex (Hormone secreted)
5. Hay fever and Leukemia (Type of disease)

(B) Below given are some diseases. Identify the cause of the disease and mention one food source of the causative component. [5]

1. Beri-beri
2. Rickets
3. Goitre
4. Pellagra
5. Anemia

Question 6

(A) State one function of each of the following: [5]

1. Pericardium
2. Left Ventricle
3. White blood cells
4. Haemoglobin
5. Liver

(B) Define the following terms: [5]

1. Microbiology
2. Endangered Species
3. Deforestation
4. Nuclear energy
5. Wildlife

Question 7

(A)

1. Describe the characteristics of insect and water pollinated flowers. [3]
2. Explain the significance of testes lying within the scrotum. [2]

(B)

1. Why one should avoid eating polished rice? [2]
2. If you spray a room freshener from a bottle in one end of a hall, will your friend at the other end of the hall be able to smell it? Explain your answer scientifically [3]