

Instructions:

Read the question paper carefully. Write neatly and legibly. Do not over write. Pay special attention to spelling. Read the answers before submitting the answer sheet.

Section A is compulsory. Attempt any five questions from Section B. The intended marks for questions or parts of questions are given in brackets.

SECTION A (40 Marks)

(Attempt all questions from this section)

[10]

I. Choose the correct option.

1. Function of WBC is to
 - a) Transport oxygen
 - b) Provide immunity
 - c) Help in clotting of blood
 - d) Provide storage of food

2. Gill cover is technically termed as:
 - a) Exoskeleton
 - b) Operculum
 - c) Flippers
 - d) None of these

3. The muscular sheet which divides the body cavity into thorax and abdomen is termed as:
 - a) Innerpleura
 - b) Ribcage
 - c) Outerpleura
 - d) Diaphragm

4. Pulmonary vein carry:
 - a) Oxygenated blood
 - b) Deoxygenated blood
 - c) Glucose rich blood
 - d) CO₂ laden blood

5. Deficiency of vitamin C causes
 - a) Night blindness
 - b) Scurvy
 - c) Anaemia
 - d) Polio

6. Sphygmomanometer measures:
 - a) Pulse rate
 - b) Heart beat
 - c) Blood pressure
 - d) Brain Activity

7. The common passage of wind pipe and food pipe is termed as:
 - a) Larynx
 - b) Glottis
 - c) Pharynx
 - d) Epiglottis

8. Which of the following categories of animals have a streamlined body shape?
 - a) Birds and Reptiles
 - b) Fish and Amphibians
 - c) Fish and Birds
 - d) Birds and Mammals

9. The animal which has a thick skin cover with fur is:

- a) Whale
b) Cat
c) Camel
d) Yak

10. Deficiency of Iodine in one's food can cause:

- a) Beri-beri
b) Goutre
c) Scurvy
d) Pellagra

II. Fill in the blanks.

1. The _____ emerges from the larynx down below in the neck.
2. The volume of chest cavity _____ during inspiration.
3. The two lower chambers of heart are called _____.
4. In birds, _____ are modified into wings.
5. Deficiency of Vitamin D cause _____ in children.

[5]

III. Match the column.

[5]

Column I	Column II
1. Hydrophobia	a) Asthama
2. Haemoglobin	b) Desert habitat
3. Camel	c) C-shaped cartilaginous
4. Allergies	d) Rabies
5. Trachea	e) Oxygen carrier

IV. Name the following.

[5]

1. Three components of circulatory system.
2. Two categories of dispersing agents.
3. Two membranes which protect the lungs.
4. A disease caused due to plasmodium.
5. Two components of the environment.

V. Find the odd one out.

[5]

1. Arteries, Veins, Atria, Capillary
2. Neem, Pine, fir, Cedar.
3. Scurvy, rickets, polio, pellagra, night blindness
4. RBCs, WBCs, Haemoglobin, Platelets.
5. Heart, kidney, Blood vessels, Blood.

VI. State whether following statements are true or false.

[5]

1. The leaves of water lily are reduced in the form of spines to reduce transpiration.
2. A faster heartbeat is usually an indication of hypotension.
3. Fishes breath by means of nostrils.
4. WBCs produce special substances called antigens.
5. Thrombocytes contain haemoglobin.

VII. Write one important role of each. [5]

1. Alveolus 2. Hump of camel 3. Gills 4. Erythrocytes 5. Larynx

SECTION B (40 Marks)

(Attempt any five questions from this sections)

VIII. a) What factors are most likely to affect the breathing rate? [3]

b) Describe the aerial adaptations in birds. [5]

IX. a) Define: Breathing. [3]

b) Distinguish between the following pairs on the basis of the words indicated in brackets. [5]

i. Elephantiasis and Malaria [mode of transmission]

ii. Jaundice and Tuberculosis [affected organs]

iii. Rickets and Smallpox [characteristic symptoms]

iv. Anaemia and Goitre [deficient mineral]

v. Metabolic diseases and Mental illness [one example each]

X. a) What is a non communicable disease? [3]

b) Draw a neat and labelled diagram of a fish and answer the following questions. [5]

i. What name is given to a body which is pointed at both ends?

ii. Name the structure which helps in swimming and breathing.

iii. State whether it is an aquatic animal or a terrestrial animal. Why?

XI. a) Give any three differences between an artery and vein. [3]

b) The given diagram shows the "Human respiratory system". Study the same and answer the following questions: [5]

i. Label the guidelines 1-4.

ii. Define the structure shown as part 2.

iii. Name the basic structural and functional unit of part 3.

iv. Write one specific structural feature of the inner lining of part 1.

v. What is the muscular sheet on which part 3 rests?



XII. a) Distinguish between RBCs and WBCs. [3]

b) List three ways by which you should keep your environment clean. [5]

XIII. a) Briefly explain the term habitat.

[3]

b) Given diagram is showing internal structure of human heart. Study the same and answer the following questions .

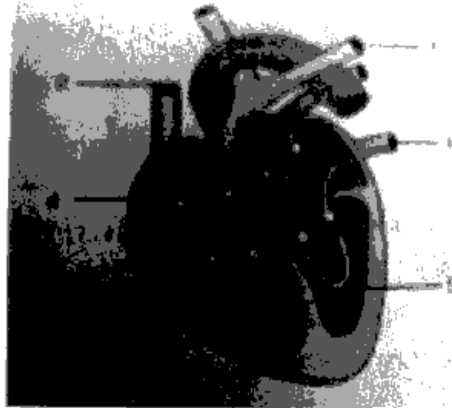
[5]

i. Label the parts marked 1 to 5.

ii. Which type of blood is carried by the blood vessels marked 2?

iii. Name the main artery which takes the blood from heart to different parts of the body?

iv. Which chamber of heart receives oxygenated blood from lungs?



XIV. a) Define biotic factors.

[3]

b) Name the three kinds of blood vessels found in human beings. With the help of suitable diagrams, differentiate between them.

[5]

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