

*Answers to this Paper must be written on the paper provided separately. You will not be allowed to write during the first 15 minutes. This time is to be spent in reading the question paper. The time given at the head of this Paper is the time allowed for writing the answers.*

**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)**

**I. Choose the correct option.**

[10]

1. Which one of the following is a growth phase in human beings.  
a) Pupa  
b) Foetus  
c) Infancy  
d) Embryo
2. Tissue fluid is  
a) Intracellular fluid  
b) Extracellular fluid  
c) Lymph  
d) Plasma
3. Reflex actions are under the control of  
a) Brain  
b) Spinal Cord  
c) Medulla  
d) Spinal Cord and Medulla
4. Which of the following disease occur in dirty areas?  
a) Malaria  
b) Rabies  
c) AIDS  
d) Anaemia
5. The Silver Revolution refers to increase production of  
a) Fish  
b) Egg  
c) Milk  
d) Rice
6. The exotic breed of poultry  
a) Assel  
b) White leghorn  
c) Large White Yorkshire  
d) Bikaneri
7. The first vaccine was produced by  
a) Jenner  
b) Robert hook  
c) A. Fleming  
d) Pasteur
8. The number of Cranial nerves in man is  
a) Twelve Pairs  
b) Ten Pairs  
c) Thirty one Pairs  
d) Twenty Four Pairs
9. Which one is not correct about veins?  
a) Veins are thick-walled  
b) Veins have valves to maintain unidirectional flow  
c) Veins are collecting vessels  
d) Blood in veins flows towards heart
10. Increased secretion of Thyroxine hormone causes

- a) Increased heartbeat  
 c) General sluggishness
- b) Simple goitre  
 d) Overgrowth of body

**II. Fill in the blanks.**

[6]

1. Transfer of blood from one person to other is called \_\_\_\_\_
2. Receptors of pain and pressure are present in \_\_\_\_\_
3. Mushrooms are \_\_\_\_\_ fungi.
4. The poultry birds, which are reared for meat are called \_\_\_\_\_
5. \_\_\_\_\_ crops include cultivation of fruits and vegetables.
6. Spread of disease by sneezing and coughing is described as \_\_\_\_\_ infection

**III. Match the column.**

[6]

| Column I         | Column II             |
|------------------|-----------------------|
| 1. Apiary        | a) Receptor           |
| 2. Botulism      | b) blood groups       |
| 3. Horticulture  | c) artificial beehive |
| 4. Stimulus      | d) water balance      |
| 5. Compatibility | e) food poisoning     |
| 6. Corticoids    | f) ornamental plants  |

**IV. Give one word.**

[6]

1. Microorganism used for manufacturing beer, wine and alcohol.
2. The virus that attack on human immune system.
3. Sudden failure of heart to pump blood.
4. Emergency hormone, secreted by adrenal medulla.
5. Glycoproteins on the surface of RBCs that determine blood group.
6. Nerves arising from brain.

**V. Encircle the odd one out, Give reason for your choice.**

[6]

1. Jersey, hoistein, murrh, Sahiwal
2. Proteins, antibodies, vaccine, cancer
3. Axon, receptor, dendron, cyton
4. Atrium, ventricle, venacava
5. Rice, wheat, maize, groundnut
6. Cheese, curd, vinegar, yeast

**VI. State whether following statements are true or false. If false rewrite the correct form of statements.[6]**

1. Hormone thyroxine is secreted by adrenal gland.
2. Impure blood from different parts of the body returns to the left auricle.
3. There are 12 pairs of spinal nerves.
4. Cholera spreads by contaminated food and water.
5. Kharif crops needs more water than rabi crops.
6. Excessive use of fertilizers enhances nitrogen content of soil.

**SECTION B (40 Marks)**

**(Attempt any five questions from this sections)**

**VII. a) Define:**

i. Endocrine glands

ii. Adolescence

[3]

- b) Differentiate between farmyard manure and Vermicompost [3]  
c) Name the hormone responsible for each of the following. [4]  
i. Converting glycogen into glucose.  
ii. Prepares the body during emergency.  
iii. Increased reabsorption of water in the kidneys.  
iv. Contraction of muscles of uterine wall during child birth.
- VIII.** a) Ventricle have thicker walls than auricles. why? [3]  
b) Define Neuron. [3]  
c) What is double circulation? Explain with diagram. [4]
- IX.** a) Differentiate between chemical coordination and neural coordination [3]  
b) Driving after taking alcohol may lead to accidents, why? [3]  
c) Draw a labelled diagram of structure of heart. [4]
- X.** a) Define hybridization. [3]  
b) Give reason: Yeast makes the dough rise. [3]  
c) Describe a simple reflex action with a suitable example. [4]
- XI.** a) Define rotation of crops. [3]  
b) Differentiate between cerebrum and cerebellum. [3]  
c) What first aid measures would you adopt in each case? [4]  
i. Poisoning ii. Severe bleeding
- XII.** a) Define Pathogen. [3]  
b) Differentiate between artery and vein [3]  
c) Write short notes on following: [4]  
i. Exotic and indigenous breed  
ii. Milching and draught breeds of cattles.

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