

Total No. of Printed Pages: 02

**SUBJECT CODE NO:- B-2094**  
**FACULTY OF SCIENCE AND TECHNOLOGY**  
**B.Sc. S.Y (Sem-IV)**  
**Examination November/December-2022**  
**Zoology Paper- XI**  
**Animal Physiology**  
**(Special Emphasis on Mammals)**

**[Time: 1:30 Hours]****[Max.Marks:50]**

N.B Please check whether you have got the right question paper.

- 1) Attempt all questions.
- 2) All questions carry equal marks.
- 3) Illustrate your answer with suitable labelled diagram.

Q.1 Describe in detail formation of urine &amp; add a note on counter current multiplier system. 20

OR

Give a detail account on composition of blood.

Q.2 Give a detail account on Menstrual Cycle in mammals 20

OR

Write short notes on (any four)

- a) Gastric secretion
- b) Respiratory pigment
- c) Structure of neuron
- d) Smooth muscle
- e) Neurotransmitters
- f) T.S. of ovary

Q.3 Multiple choice questions 10

1. Proteins are digested by enzyme called:

- a) Amylase    b) Trypsin    c) Lipase    d) Pepsin

2. Secretion of stomach is called:

- a) Mucous gland    b) Gastric juice    c) Saliva    d) Pepsin

3. The type of respiration in mammals is called:

- a) Pulmonary respiration    c) Cutaneous respiration  
b) Gill respiration    d) Tracheal respiration

4. During inspiration the diaphragm -----

- a) Expands    b) Contracts    c) No change    d) Relaxes

5. In double circulatory system function of veins is to carry:  
a) Oxygenated blood    b) Deoxygenated blood    c) Lymph    d) Signals
6. Sarcomere is represented between:  
a) Two 'Z' disc    b) Two 'H' disc    c) Two 'A' lines    d) Two 'I' lines
7. Striated muscles have:  
a) Single nucleus    b) Double nucleus    c) Multinucleated    d) Lack nucleus
8. Heart is composed of:  
a) Cardiac muscles    b) Smooth muscles    c) Lack muscles    d) Skeletal muscles
9. The cavity present in graffian follicle is -----  
a) Amniotic cavity    b) Archenteron    c) Antrum    d) Ostium
10. Bowman's capsule occurs in :  
a) Pancreas    b) Pituitary    c) Brain    d) Kidney