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**SUBJECT CODE NO: - Y-2201**  
**FACULTY OF SCIENCE AND TECHNOLOGY**  
**B.Sc. (PATTERN-2013) (S.Y SEM IV)**  
**Examination April / May - 2024**

**Zoology Paper- XI Animal Physiology(Special Emphasis on Mammals)**

[Time: 1:30 Hours]

[Max. Marks:50]

Please check whether you have got the right question paper.

N. B

- 1) Attempt all questions.
- 2) Illustrate your answer with suitable labelled diagrams.

**Q.1** Write a note on buccal digestion.

20

OR

Describe the process of blood clotting.

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**Q.2** Describe structure of Cardiac muscle.

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OR

**Write short notes on any four of the following:**

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- a) Red blood cells.
- b) Fatigue.
- c) Neuron.
- d) Oestrous cycle.
- e) Synapse.
- f) Respiratory pigments.

**Q.3 Multiple choice questions:**

10

1. The straining of blood by Malpighian Corpuscle is known as \_\_\_\_\_
  - a) Coagulation
  - b) Precipitation
  - c) Ultrafiltration
  - d) Both a & b
2. Smooth muscles are known as \_\_\_\_\_
  - a) Visceral muscles
  - b) Cardiac muscles
  - c) Skeletal muscles
  - d) Both b & c
3. Ptyalin and maltase are \_\_\_\_\_ enzymes.
  - a) Pancreatic
  - b) Gastric
  - c) Salivary
  - d) Both a & b.



4. The hormone released from testes is \_\_\_\_\_  
a) Testosterone  
b) Vasopressin  
c) Progesterone  
d) None of these
5. In the blood clotting mechanism pathway, thrombin activates factors \_\_\_\_\_  
a) XI, VIII, V  
b) XI, IX, X  
c) VIII, X, V  
d) IX, VIII, X
6. Heart beat is initiated by a special tissue called \_\_\_\_\_  
a) Systole  
b) Pacemaker  
c) Adipose tissue  
d) Diastole
7. The outer region of kidney is known as \_\_\_\_\_  
a) Renal medulla  
b) Renal cortex  
c) Renal papillae  
d) Renal Sinus
8. \_\_\_\_\_ is used to record muscle twitch  
a) ECG  
b) Apoptosis  
c) kymograph  
d) X-ray
9. \_\_\_\_\_ is a period of rest between the Oestrous cycles  
a) Anoestrous  
b) Metaestrous  
c) Proestrous  
d) Heat Period
10. The ovum with a group of ovarian cells is known as \_\_\_\_\_  
a) Plasmids  
b) Intestinal cells  
c) Graafian follicle  
d) Alpha cells

