

Roll No.

Total Pages : 3

GSM/M-20

1628

ZOOLOGY

(Mammalian Physiology-II)

Paper-II

Time Allowed : 3 Hours]

[Maximum Marks : 40

Note : Attempt **five** questions in all, selecting at least **two** questions from each Unit. Question No. 1 is compulsory. All questions carry equal marks.

Compulsory Question

1. Explain the following terms in about 20 words each:
 - (a) Starling's law of heart.
 - (b) Osmoregulation.
 - (c) Action Potential.
 - (d) Leydig cells.
 - (e) Blood pressure.
 - (f) Luteinising hormone (L.H.)
 - (g) Uricotelism.
 - (h) Neurosecretory cells.

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(i) Polycythemia.

(j) Residual volume. 1.5×10=15

UNIT-I

2. Describe the origin, conduction and nervous regulation of heart beat with the help of well labelled diagram. 6.25
3. Describe the process of Haemopoiesis with the help of well labelled diagram. 6.25
4. (a) Discuss the transport of CO₂ gas in the blood. 3
- (b) Describe the formation of urea in the liver. 3.25
5. (a) Give an account of the countercurrent mechanism of urine formation. 3.25
- (b) What do you mean by Inspiratory reserve volume and Expiratory reserve volume. 3

UNIT-II

6. (a) Explain the synaptic transmission of nerve impulse. 4.25
- (b) What is menstrual cycle? 2
7. (a) Name the various hormones and their functions secreted by posterior lobe of pituitary gland. 3.25

- (b) Write a short note on implantation. 3
8. Write notes on the following :
- (a) Oogenesis. 5
- (b) Neuroglia. 1.25
9. (a) Differentiate between Diabetes mellitus and Diabetes insipidus. 3
- (b) Addison's disease. 2
- (c) Reflex action. 1.25