



HDV-003-1183002 Seat No. _____

M. Sc. (Zoology) (Sem. III) (CBCS) Examination

November / December – 2017

ZOOL-314 : Mammalian Physiology

Faculty Code : 003

Subject Code : 1183002

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

1 Answer the following very briefly : (Any Seven) 2×7=14

- (a) Draw the structure of a lymph node
- (b) Name few skin glands
- (c) Draw the ultrastructure of glomerulus
- (d) Name few functions of the lymph
- (e) Name few protein digesting enzymes
- (f) Name the layers of epidermis
- (g) Give the names of salivary glands
- (h) Name the digestive functions of bile
- (i) Name functions of juxtaglomerular cells
- (j) Name the bones of the middle ear.

2 Answer the following : (Any Two) 2×7=14

- (a) Write a short note on the functions of saliva
- (b) Describe the physiology of sense of smell
- (c) Briefly describe the structure of the lymphatic system

3 Answer the following : 2×7=14

- (a) Describe the physiological processes of thermoregulation in mammals
- (b) Write an illustrated note on the receptors for hearing

OR

- 3** Answer the following : **2×7=14**
- (a) Briefly describe the functional role of Bowman's Capsule
 - (b) Describe the Chloride Shift in RBC
- 4** Answer the following : **2×7=14**
- (a) Give an illustrated account of the mechanism of heart beat
 - (b) Write a short note on the osmoregulation in marine mammals
- 5** Answer the following : (Any **Two**) **2×7=14**
- (a) Write a diagrammatic note on the mammalian epidermis
 - (b) Describe the exchange of gases between alveoli and capillary
 - (c) Describe the stepwise events during muscle contraction
 - (d) Give an illustrated account on the sensory cells of taste.
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