



JAY-003-1183002

Seat No. _____

**M. Sc. (Zoology) (Sem. III) (CBCS) (W.E.F. 2016)
Examination**

December - 2019

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 the layers of epidermis.
 - (c) Name the digestive functions of bile.
 - (d) Give the names of salivary glands.
 - (e) Name the bones of the middle ear.
 - (f) Draw the ultrastructure of glomerulus.
 - (g) Name few protein digesting enzymes.
 - (h) Name functions of juxtaglomerular cells.
 - (i) Name few functions of the lymph.
- 2 Answer of the following : (Any Two) 7×2=14**
- (a) Describe the physiological mechanism of the sense of hearing.
 - (b) Describe the mechanism of heart beat with a suitable and labelled diagram.
 - (c) Describe the physiological processes of osmoregulation in desert mammals.

3 Answer the following : **7×2=14**

- (a) Write a brief note on the Chloride Shift in RBC
- (b) Write a short note on the functions of saliva

OR

3 Answer the following : **7×2=14**

- (a) Briefly describe the structure of the lymphatic system
- (b) Write an illustrated note on the receptors for taste

4 Answer the following : **7×2=14**

- (a) Give an illustrated account on the sensory cells of smell
- (b) Write a short note on the thermoregulation in mammals

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

- (a) Write a brief note on the layers of mammalian epidermis
- (b) Write a note on the exchange of gases between alveoli and capillary
- (c) Describe the functional role of Bowman's Capsule
- (d) Write a note on the stepwise events during muscle contraction.
