



HDV-003-018302

Seat No. _____

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

November / December – 2017

ZOOL - 314 : Mammalian Physiology

Faculty Code : 003

Subject Code : 018302

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

[Total Marks : 70

1 Answer the following very briefly : (any seven) **2×7=14**

- (a) Give the names of salivary glands.
- (b) Describe the functions of bile.
- (c) Name the functions of nephron.
- (d) Name the functions of lymph.
- (e) Write the process of ventilation.
- (f) Write names of the layers of epidermis.
- (g) What is osmoregulation?
- (h) Write the names of skin glands.
- (i) Give functions of juxtaglomerular cells.
- (j) Name the bones of the middle ear.

2 Answer of the following : (any two) **7×2=14**

- (a) Describe the physiology of sense of smell.
- (b) Write a short note on the lymphatic system.
- (c) Describe the physiology of thermoregulation.

3 Answer the following : **7×2=14**

- (a) Describe the mechanism of heart beat.
- (b) Describe the physiology of the receptor cells for hearing.

OR

3 Answer the following : **7×2=14**

- (a) Write a brief note on the functional role of Bowman's Capsule.
- (b) Write a short note on the functions of saliva.

4 Answer the following : 7×2=14

- (a) Write a short note on mammalian epidermis.
- (b) Write a short note on the osmoregulation in desert mammals.

5 Answer the following : (any **two**) 7×2=14

- (a) Write a short note on the 'Chloride Shift'.
 - (b) Write a short note on the sense of taste.
 - (c) Describe diffusion of gases between alveoli and capillary end.
 - (d) Write a note on the physiology of muscle contraction.
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