



DNN-003-022201

Seat No. _____

M. Phil. (Zoology) (Sem. II) (CBCS) Examination

May / June – 2015

ZOOL - 201 : Physiology & Neurobiology

Faculty Code : 003

Subject Code : 022201

Time : Hours]

[Total Marks : 70

Q.1. Answer the following very briefly (*any seven*)

2 x 7 = 14

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|---------------------------------------|--|
| (a) Define neuron | (b) Describe functions of spinal cord |
| (c) Write the functions of glomerulus | (d) Name few reproductive hormones |
| (e) Define ventilation process | (f) Define Hypertension |
| (g) Define thermoregulation | (h) Write the functions of Pituitary gland |
| (i) Write functions of Renin | (j) Name the three bones of middle ear |

Q.2. Answer of the following (*any two*)

7 x 2 = 14

- (a) Describe the functional role of Bowman's Capsule
- (b) Describe the physiology of thermoregulation
- (c) Describe the physiology of sense of taste

Q.3. Answer the following :

7 x 2 = 14

- (a) Describe the physiology of smell
- (b) Write a short note on the O₂ transport in blood

OR

Q.3. Answer the following :

7 x 2 = 14

- (a) Describe the diffusion of the respiratory gases at alveoli level
- (b) Describe the mechanism of heart beat

Q.4. Answer the following:

7 x 2 = 14

- (a) Write a short note on the nervous system in invertebrates
- (b) Describe CO₂ transport in blood

Q.5. Answer the following (*any two*) :

7 x 2 = 14

- (a) Describe the functions of neuro-hypophysis and its control
 - (b) Describe the functions of the hormones from endocrine pancreas
 - (c) Write a short note on sex hormones
 - (d) Write a short note on the rod and cone cells
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