



MBT-003-1184002 Seat No. _____

M. Sc. (Sem. IV) (CBCS) (W.E.F. 2016) Examination

April / May - 2018

Zoology : ZOOL - 420

(Neurobiology)

Faculty Code : 003

Subject Code : 1184002

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

[Total Marks : 70

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

- (a) Describe the functions of neuron.
- (b) Define a neuron giving examples.
- (c) Describe the functions of Spinal Cord.
- (d) What is Resting Equilibrium ? Give examples.
- (e) What is Action potential ? Give examples.
- (f) What is STM ? Give examples.
- (g) Write few applications of EEG.
- (h) What are opiate peptides ?
- (i) What is LTM ?
- (j) Write the names of few painkillers.

2 Write short notes : (any two) **7×2=14**

- (a) Describe the morphology and functions of various parts of the human brain.
- (b) Describe the basic structure, classification and functions of neuroglia.
- (c) Describe the basic plan of invertebrate nervous system.

3 Answer the following : **7×2=14**

- (a) Write a short note on pain killers and their functions.
- (b) Write an illustrative note on myelin sheath and its functions.

OR

3 Answer the following : **7×2=14**

- (a) Write an illustrative account of the ultrastructure of synapse.
- (b) Write a short note on epilepsy and its control.

4 Answer the following : **7×2=14**

- (a) Write a note on the functional aspects of the neurotransmitters.
- (b) Briefly describe the structure and functions of melatonin.

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

- (a) Write a short note on depression.
- (b) Write a short note on the energy metabolism in brain.
- (c) Write a short note on the role of CNS in Hypertension.
- (d) Write a short note on the brain topography and its applications.
