



Seat No. _____

HA-003-1184002

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

April - 2023

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) Define neuron.
- (b) Write the name of glial cells.
- (c) What is Perikaryon ?
- (d) Define synapses.
- (e) Write the name of neurotransmitters.
- (f) Explain Astrocytes.
- (g) Full form of EEG, STM and LTM.
- (h) What is Pons ?
- (i) What is brain stem ?
- (j) Parts of Procerephalon.

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

- (a) Discuss the Evolution of brain.
- (b) Discuss the resting potential and equilibrium potential in detail.
- (c) Write about endorphin and opium peptide with its distribution.

3 Answer the following : **7×2=14**

- (a) Write a short note on epilepsy and its control.
- (b) Write a short note on melatonin.

OR

3 (a) Discuss biosynthesis of neurotransmitters. **7×2=14**

- (b) Write about the diagnostic criteria of depression and its treatment.

4 Answer the following : **7×2=14**

- (a) Write the short note on role of CNS in Hypertension.
- (b) Explain Physiology of memory.

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

- (a) Describe classification, structure and function of various neuroglia found in CNS.
 - (b) Describe the ultrastructure and functions of myelin sheath.
 - (c) Describe the physiological functions of natural pain killers.
 - (d) Give a detailed account of EEG and its application.
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