



BBB-003-1184002

Seat No. _____

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

June / July - 2021

ZOOL-420 : Zoology

(Neurobiology) (Core Course)

Faculty Code : 003

Subject Code : 1184002

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

[Total Marks : 70

- 1 Answer the Following very briefly **2×7=14**
- (a) Write the function of oligodendrocyte.
 - (b) Describe GABA.
 - (c) Complete the name ANG.
 - (d) Define EEG.
 - (e) What is myelin sheath ?
 - (f) Explain the term "Connective and Commisure" in invertebrate nervous system.
 - (g) What is Pons?
- 2 Answer the Following very briefly **2×7=14**
- (a) Write the function of cerebellum.
 - (b) Define neurophagia.
 - (c) What is neurolemma?
 - (d) Name of the natural pain killers.
 - (e) Types of glial cells.
 - (f) What is neurofibrils?
 - (g) Complete the name of CSF.
- 3 Answer of the following **7×2=14**
- (a) Write a note on ultrastructure of electrical synapses.
 - (b) Write a note on the evolution of the brain.
- 4 Answer the following: **7×2=14**
- (a) Give a detailed account of the invertebrate nervous system.
 - (b) Write a short note on any two neurotransmitter and functions.

- 5 Answer the following : 7×2 =14
(a) Write a short note on arthropod and mollusc nervous system in evolutionary aspect?
(b) Give the detail account on the morphology of vertebrate brain.
- 6 Answer the following: 7×2=14
(a) What is synapse? Classify the various types of synapse in central and peripheral nervous system?
(b) Give the detail account on role of Renin-Angiotensinogen system in brain.
- 7 Answer the following: 7×2 =14
(a) Explain the signal propagation in myelinated and non myelinated nerve fibre.
(b) Explain any two types of neuropeptides and their function.
- 8 Answer the following: 7×2=14
(a) Briefly describe the oligodendrocyte?
(b) Describe the process of the measurement of action potential in nerve fiber with a suitable model.
- 9 Answer the following: 7×2=14
(a) Write a short note on the Resting potential.
(b) Write short note on melatonin and its function?
- 10 Answer the following: 7×2=14
(a) Classify the structural synapses?
(b) Describe the physiological function of Natural pain killer?
-