

M.Sc.(Zoology) CBCS Pattern Semester-IV
PSCZOOT14.4 - Paper-XIV - Special Group : Animal Physiology-III
(Physiology of Brain, Nerve and Muscle)

P. Pages : 1

Time : Three Hours



GUG/W/23/11432

Max. Marks : 80

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- Notes :
1. All questions are compulsory.
 2. All questions carry equal marks.
 3. Draw diagrams wherever necessary.

1. Write an account on Morphological Differentiation of Mammalian Brain. 16

OR

Write notes on:

- a) Cerebellum
- b) Brain Stem

2. Write an account on Ultrastructure of Neuron. 16

OR

Write note on:

- a) Molecular Mechanism of Synaptic transmission.
- b) Types and properties of Neurons.

3. Write an account on Biosynthesis, Storage and release of Neurotransmitters. 16

OR

Write notes on:

- a) Alzheimer's Disease
- b) Neuropeptides

4. Write an account on Ultrastructure of Neuromuscular Junction. 16

OR

Write notes on:

- a) Ultrastructure of Skeletal Muscle.
- b) Muscular Disorders

5. Attempt the following 16

- a) Memory and Sleep
- b) Sodium Potassium Pump
- c) Photoreception
- d) Role of ATP in Muscle Contraction
