

QP CODE: 25047431



Reg No :

Name :

M.Sc DEGREE (CSS) EXAMINATION, NOVEMBER 2025

Third Semester

M Sc BIOCHEMISTRY

ELECTIVE - BC800301 - NEUROBIOCHEMISTRY

2019 ADMISSION ONWARDS

3648652E

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

*Weight **1** each.*

1. Explain regeneration of nerve fibres.
2. What is Blood - CSF Barrier? How it is created? Add a note on absorption and functions of CSF.
3. Write a short note on ligand gated channel.
4. What is an action potential?
5. Illustrate the structure of synaptic knob.
6. Compare the structure of myoneural junction and synapse.
7. Explain the synthesis of histamine .
8. List the functions of glycine .
9. Explain the chemistry and synthesis of nitric oxide .
10. What is Parkinson's disease? List out its symptoms and preventive measures.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

*Weight **2** each.*

11. Explain with example 'True Glial Cells'.
12. What is Blood Brain Barrier? With a neat diagram describe the structural components of BBB.
13. Write a note on continuous and saltatory conduction.
14. Define synapse and Explain the structure with diagram .
15. Write a short note on acetylcholine and explain its structure and functions.





16. Explain the receptors of catecholamines .
17. Analyse why ALS is known as 'Motor Neuron Disease'.Based on this name how it is categorised?
18. Explain the terms ALS and Senile Dementia.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Write a detailed note on resting membrane potential.
20. Explain the molecular mechanism of synaptic transmission with diagram.
21. Explain the chemistry ,receptors ,storage and release of aspartic acid.
22. Explain classification of learning with the help of suitable examples.

(2×5=10 weightage)

