

M.Sc. DEGREE EXAMINATIONS - MARCH 2016  
IV SEMESTER  
**Zoology**  
PAPER III – NEUROBIOLOGY AND ANIMAL BEHAVIOUR

Time: 3 Hours

Max. Marks: 75

(No additional sheet will be supplied)

**PART - A (5 x 3 = 15 marks)**

**Answer any FIVE Questions**

**Each question carries 3 marks**

**Each answer should not exceed 1 page**

1. Nerve impulse
2. Ultra structure of synapse
3. CNS barriers
4. GABA
5. Olfactory perception
6. Social organization
7. Improving memory
8. Recognition – Relearning

**PART - B (4 x 15 = 60)**

**Answer ALL questions**

**Each question carries 15 marks**

**Each answer should not exceed 6 pages**

9. Write about sodium and potassium pump and generation of the action potentials.  
(Or)
10. Give a note on chemical and electrical transmissions of synapse.  
(Or)
11. Explain the inactivation mechanism and functions of acetylcholine and catecholamine neurotransmitters.  
(Or)
12. Give notes on Neuropeptides.  
(Or)
13. Write about animal aggregation and homing territoriality.  
(Or)
14. Explain the visual perceptions.  
(Or)
15. Write about cognitive learning.  
(Or)
16. Give an account on retrieval process and theories of memory.

