

M.Sc. DEGREE EXAMINATION, APRIL 2015.

FOURTH SEMESTER

Zoology

Paper III — NEUROBIOLOGY AND ANIMAL BEHAVIOUR

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

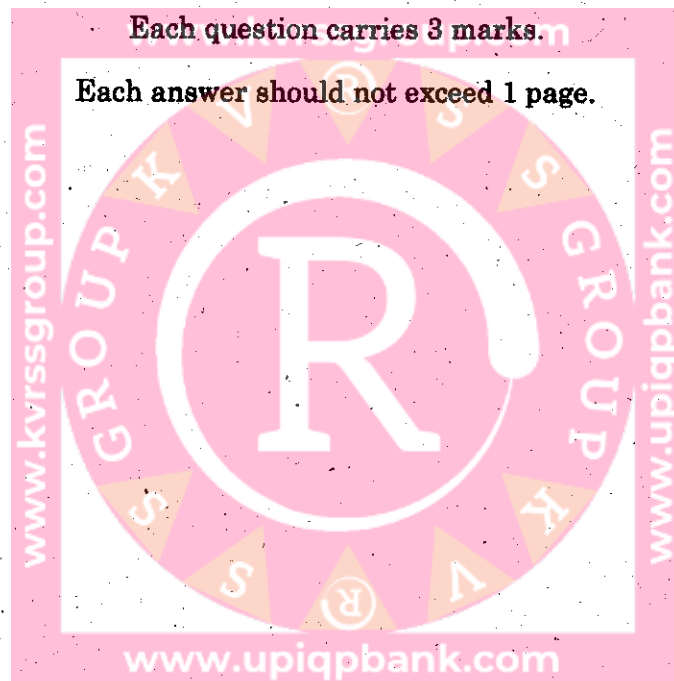
SECTION A — (5 × 3 = 15 marks)

Answer any FIVE questions.

Each question carries 3 marks.

Each answer should not exceed 1 page.

1. Memory.
2. Oxytocin.
3. Potassium pump.
4. Aggression.
5. Recall.
6. Nerve cell.
7. Homing.
8. Dopamine.



SECTION B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

Each answer should not exceed 6 pages.

9. Describe bioelectrical properties of neurons.
- Or
10. Write an essay on autonomic nervous system.

11. Give an account on chemical composition of the nervous system.

Or

12. Write an essay on neuropeptides.

13. Give a detailed account on social organisation in insects.

Or

14. Give an account visual perception.

15. Write an essay on multiple – response learning.

Or

16. Describe the theories of memory.

