

25101 (OR)

M.Sc. DEGREE EXAMINATION, APRIL 2015.

SECOND SEMESTER

Zoology

Paper I — CELL BIOLOGY AND IMMUNOLOGY

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

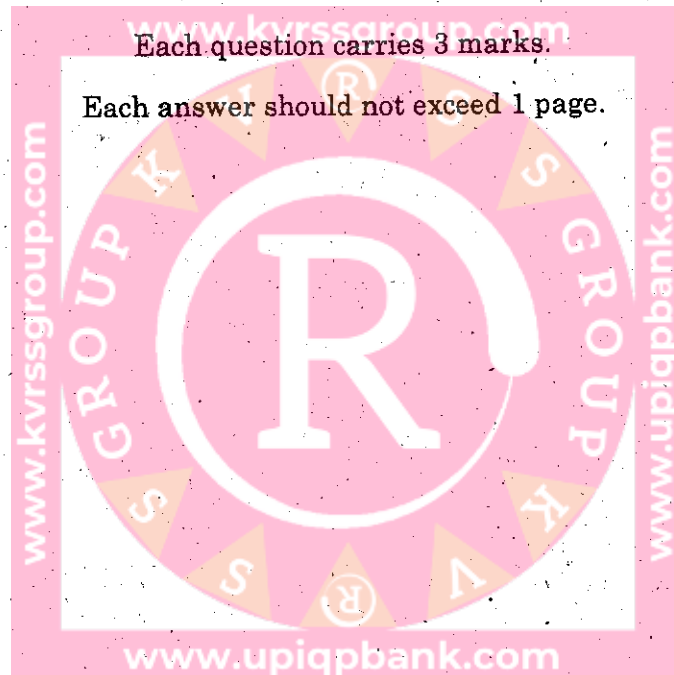
PART A — (5 × 3 = 15 marks)

Answer any FIVE questions.

Each question carries 3 marks.

Each answer should not exceed 1 page.

1. Hast – Cells.
2. Active immunity.
3. Phagocytosis.
4. Necrosis.
5. Tolerance.
6. Phospholipids.
7. Lymphoid cells.
8. Mitochondria.



PART B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

9. Give an account of the eukaryotic cell cycle.  
Or
10. Write an essay on cytoskeletal architecture.
11. Give an account on cell-cell signaling.  
Or
12. Describe the pathways of intracellular signal transduction.

13. Write an essay on Antigens.

Or.

14. What are the cells involved in immune system? Explain in detail.

15. Give a detailed account on immunoglobulins.

Or

16. Answer the following

(a) Autoimmunity.

(b) Immunodeficiency.

