KARNATAKA STATE OPEN UNIVERSITY II Semester, M.Sc. Examination Feb-2015

BIOTECHNOLOGY

BT 2.3: IMMUNO-TECHNOLOGY

Instruction: Answer all the sections.

Section A

Answer any FOUR questions from the following

 $4 \times 5 = 20$

Max. Marks: 80

- 1. Blood group antigens.
- 2. Anaphylaxis.

Time: 3 Hours

- 3. Tumor markers.
- 4. Interferons.
- 5. Subunit vaccines.
- 6. Hashimoto's disease

Section B

Answer any THREE questions from the following

 $3 \times 10 = 30$

- 7. Types and structure of immunoglobulins.
- 8. Role of MHC molecules in T cell activation
- 9. HLA and tissue transplantation.
- 10. Antibody diversity.
- 11. Xeno-transplantation and Immuno-suppression theory.

Section C

Answer any TWO questions from the following

 $2\times15=30$

- 12. Explain different types of immunodeficiency disorders.
- 13. Discuss about the different types of complement activation pathways
- 14. Describe the cell mediated hypersensitivity reactions.
- 15. Write a note on structure and functions of organs involved in immune system.
