M. Sc.(IIS) — Biotech (2.3)

2016

Time: 2 hours

Full Marks: 40

The questions are of equal value.

Answer any four questions.

(MOLECULAR IMMUNOLOGY)

- What is Immunity? Discuss the various features of innate and adaptive immunity.
- 2. Write short notes on the following:
 - (a) Lymphoid Organs
 - (b) NK cells
- Give an account of the structure, distribution and processing of MHC molecules.
- Write short notes on the following :
 - (a) T cells receptors
 - (b) Antigen-Antibody interactions

- 3. Write notes on the following;
 - (a) Effect of pH on enzyme activity
 - (b) Line weaver Burk plot
- Describe how enzyme modification alters the catalytic efficiency. Giving suitable examples add a note on practical application of such technology.
- Give an account of the mechanism of action of carboxypeptidase.
- 6. Write notes on the following:
 - (a) Serine protease
 - (b) Multienzyme complexes
- Give an account of the commercial applications of enzymes in food industries.
- Write short notes on the following :
 - (a) Effect of organic solvents on enzyme activity
 - (b) Enzymes in paper industry

FI – 23/2 (100) (2)M. Sc.(IIS)—Biotech (2.4)