a2zpapers.com

Exam. Code : 107404 Subject Code : 2305

B.Sc. (Bio Technology) 4th Semester BT-5 IMMUNOTECHNOLOGY

Time Allowed—3 Hours]

[Maximum Marks—40

Note: — Section A (1×8 marks) is compulsory. Section B (5×4 marks). Attempt any 5 questions. The answer should not exceed two pages. Section C (6×2 marks). Attempt any 2 questions. The answer should not exceed five pages.

SECTION—A

(Compulsory)

Write a brief account of the following:

- 1. Properties of T independent antigens
- 2. Markers on T cells attained in the thymus
- 3. Principle of Radial immunodiffusion
- 4. Direct agglutination test of bacteria
- 5. How body responds to extracellular bacteria?
- 6. Immune invasion
- 7. Freunds complete adjuvant composition
- 8. Attenuation

3130(2518)/CTT-37381

(Contd.)

SECTION—B

- 1. Describe the differentiating markers on mature T helper cells and their functions.
- 2. Give the structure of TCR.
- 3. Write down the procedure of rocket immunoelectrophoresis.
- 4. How to perform Haemagglutination inhibition reaction and its significance ?
- 5. How body responds to viruses?
- 6. What do you understand by immune invasion?
- 7. What are the merits and demerits of passive immunization?
- 8. Which methods are adopted to prepare whole organism vaccines?

SECTION—C

- 1. How T cells recognize exogenous and endogenous antigens?
- 2. Write down the procedure for sandwich ELISA.
- 3. Give an account of immunopathological consequences of parasitic infections like malaria and babesia.
- 4. How to make purified macromolecules vaccines?