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Exam. Code: 107404

Subject Code: 2145

B.Sc. (Bio-Technology) Semester—IV IMMUNOTECHNOLOGY Paper—BT-5

Time Allov: 40 [Maximum Marks—40

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

SECTION—A (Compulsory)

- 1. Give a brief account of the colle wing:
- (i) Antigen receptors on the Γ celis.
 - (ii) T dependent antigens.
 - (iii) Radial immunodiffusion significance.
 - (iv) Direct haemagglutination test principle
 - (v) Viral antigens against which antibodies can be raised.
 - (vi) Intracellular parasites, which mechanism of immunity kills them.
 - (vii) Drawbacks of passive immunization.
 - (viii) Freund complete adjuvant.

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(Contd.)

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SECTION—B

- 1. How immune response occurs to T independent antigens?
- What is negative and positive selection of T cells?
- 3. Pescribe the principle and methodology of RIA.
- 4. Lesc ibe the methodology, principle and significance of immunoblotting.
 - 5. How had, protects against Mycobacterium sp. Bacteria?
 - 6. Which immune response to worms is generated in body? Give mechanism.
 - 7. Describe the nexits and demerits of active immunization.
 - 8. What are the properties of whole organism vaccines?

SECTION—C

- 1. How antigens are recognized by T cells and response occurs to them?
- 2. Write the immunoelectrophoretic techniques and their significance.
- 3. How the immune invasion is regulated?
- 4. How vaccines are prepared from purified macromolecules and how they are better than attenuated vaccines?

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