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MBS 458

II Semester M.Sc. Degree Examination, September/October 2022 (CBCS-PG-CGPA) MICROBIOLOGY Immunotechnology

Time: 3 Hours Max. Marks: 70

I. Answer **any five** of the following:

 $(5 \times 3 = 15)$

- 1) Epitope.
- 2) Flagellar antigens.
- 3) Flocculation test.
- 4) Immunoelectrophoresis.
- 5) Dendritic cells.
- 6) Secondary Antibodies.
- 7) Immune Tolerance.

II. Write notes on any five of the following:

 $(5 \times 5 = 25)$

- 8) ELISA.
- 9) Humanized monoclonal antibodies.
- 10) Flow cytometry.
- 11) Immunofluorescence.
- 12) Ouchterlony double diffusion test.
- 13) Immunosuppressive Therapy.
- 14) Culturing of macrophages.

III. Answer **any three** of the following :

 $(3\times10=30)$

- 15) Describe general structure, classes and functions of immunoglobulins.
- Explain hybridoma technology for monoclonal antibody production and applications.
- 17) Describe purification of antigens and antibodies by affinity chromatography techniques.
- 18) Write an account on immunological basis of Graft Rejection.
- Discuss the principle, procedure and applications of Radio Immunoassay.
