PG Degree Supplementary Examinations in Microbiology (MD) January 2024

Paper I – General Microbiology and Immunology

Time: 3 hrs Max marks:100

- Answer all questions to the point neatly and legibly Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

Essay: (20)

 Classify autoimmune disorders. Discuss the mechanisms of autoimmunity with examples. Write a note on the methods of detection of Autoimmune disorders.
 Add a note on immunomodulators used in the treatment of these disorders with examples.

Short essays: (8x10=80)

- 2. Virulence mechanisms in bacteria
- 3. Type IV hypersensitivity reaction
- 4. Role of Biomarkers in diagnosis of sepsis
- 5. Superantigens
- Enumerate the methods of pathogen typing. Discuss the role of molecular methods in typing with examples
- 7. Quality control in sterilisation and disinfection
- 8. List the Beta lactam + Beta lactam inhibitor combination antibiotics. Discuss their mechanism of action, uses and their application in the detection of antimicrobial resistance
- 9. Natural Killer cells
