QP Code: 302019 Reg. No......

Third Year B.Sc. Medical Microbiology Regular/Supplementary Examinations April 2022 Immunology, Immunochemistry and Serology – I (2014 Scheme)

Time: 3 Hours 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 (2x15=30)

- 1. Enumerate properties and types of Antigen- antibody reactions. Describe in detail the definition, types and applications of precipitation reaction
- 2. Describe the general properties and components of complement system. Discuss about classical complement pathway and regulation of complement activation

Short Essay (2x10=20)

- 3. Describe Humoral immune response
- 4. Describe acquired immunity

Short Answers (6x5=30)

- 5. Immunological tolerance
- 6. HLA complex
- 7. Difference between endotoxins and exotoxins
- 8. Immunoglobin G
- 9. B cell maturation
- 10. Hybridoma technique

Comment on (10x2=20)

- 11. Adjuvants
- 12. Opsonisation
- 13. T cell receptor
- 14. Passive agglutination
- 15. Toxoids
- 16. Give four examples for killed vaccine
- 17. Antigen presenting cells
- 18. Marracks lattice hypothesis
- 19. Immunoglobin M
- 20. Adoptive immunity
