M.Sc. Biotech (previous) year Examination, 2016

Faculty of Science

(Virology, Immunology & Pathogenesis)

Time: 3 Hours

Maximum Marks: 100

Note: Question 1 is compulsory, Attempt five questions in all.

Q1. Answer the following:

- i) Any two bacteria producing endotoxins
- ii) Difference between exotoxins and enterotoxins
- iii) Indicator plants
- iv) Double diffusion
- v) Difference between capture ELISA and Direct ELISA

Q2. Write in detail about the microflora of skin and their role in host parasite relationship?

Q3. Write in detail types of toxins, their structures and mode of action?

Q4. Describe the composition and ultra structure of capsid and envelope of viruses?

Q5.write short notes on::

- i) Cauliflower mosaic virus
- ii) Brief account of diagnostic technique in plant
- Q6. Describe structure and types of Antibody? Discuss the theories of antibody production?
- Q7. Write in detail about the role of lymphocytes in defense mechanism of host?
- Q8. Give a detailed account of immunological techniques used in antigen detection?

Q9. Give brief account on:

- i) Dendritic cell
- ii) Epitopes
- iii) Heamatopoiesis
- iv) Tc and TH cells

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Q1. Answer the following:

- i) Interferons
- ii) Virion
- iii) Difference between cogenital and acquired immune deficiencies
- iv) Incubation period
- v) IgG and IgM
- Q2. Give a detailed account on antiviral drugs and their mode of action?

Q3. Write short notes on:

- i) Poxviridae
- ii) Rhabdoviridae
- Q4. Describe the cytopathic effects of host virus interaction in plants?
- Q5. Write in detail the transmission of plant virus?
- Q6. Describe the nature, biology and types of antigens and superantigens?
- Q7. Describe in detail antigen presenting cells?
- Q8. Give a detail account on generation of Ab in mouse, conjugation and generation of hybridoma?
- Q9. Describe hypersensitivity and autoimmunity?