

QP Code:

Reg. No.....

Third Year B.Sc Medical Microbiology Degree Examinations October 2017

Paper IX - SYSTEMATIC BACTERIOLOGY

(Model Question Paper)

Time: 3 hrs

Max Marks: 100

- **Answer all Questions**
- **Draw diagrams wherever necessary**

Essays

(2x15=30)

1. Describe the morphology, pathogenesis, clinical features and laboratory diagnosis of salmonella sp.
2. Explain the pathogenesis, clinical features and laboratory diagnosis of streptococcus pyogenes.

Short Essays

(2x10=20)

3. Enumerate the medically important spirochetes. Explain the laboratory diagnosis of syphilis.
4. Explain the pathogenesis and laboratory diagnosis of tuberculosis.

Short Answers

(6x5=30)

5. Satellitism
6. Botulism
7. Bacillary dysentery
8. Q fever
9. Halophilic vibrios
10. Travellers diarrhea

Comment on

(10x2=20)

11. Psittacosis
12. Coagulase test
13. Elek's gel precipitation test
14. Photochromogens
15. Milk ring test
16. Lepromin test
17. DPT
18. Wool sorters disease
19. Non gonococcal urethritis
20. Blue pus

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Paper X - Immunology, Immunochemistry and Serology – I

(Model Question Paper)

Time: 3 hrs

Max Marks: 80

- **Answer all Questions**
- **Draw diagrams wherever necessary**

Essays

(2x15=30)

1. Define immune response. Discuss on primary and secondary immune response. Add a note on production of antibodies.
2. Define complement. Classify the pathways and discuss in detail about the classical complement pathway and its regulation.

Short essays

(2x10=20)

3. Define antibody and explain the structure of immunoglobulin.
4. Discuss the principle and application of agglutination reactions.

Short answers

(6x5=30)

5. Vaccines
6. Sources of transmission of infections
7. Cytokines
8. ELISA
9. MHC
10. T cell maturation

Comment on

(10x2=20)

11. Monoclonal antibodies
12. Macrophages
13. Side chain theory
14. NK cells
15. T independent antigens
16. Zoonotic diseases
17. CIE
18. Adjuvant
19. Phagocytosis
20. Lymph node
