SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

M.B.B.S. PHASE - II Degree Examination – January-2016

Time : 3 Hrs. **[Max. Marks : 100]**

MICROBIOLOGY– PAPER I

Q.P Code : SDUU-109

Your answers should be specific to the questions asked.
Draw neat labelled diagrams wherever necessary.

LONG ESSAY **2 X 10 = 20 Marks**

1. Define sterlisation. What are the methods of sterlisation. Discuss in detail about the principle mechanism and sterlisation control of autoclave.
2. Classify Mycobacteria. Discuss the pathogenesis, laboratory diagnosis and prophylaxis of pulmonary tuberculosis.

SHORT ESSAY **10 X 5 = 50 Marks**

3. Kanagawa phenomenon.
4. Glanders.
5. Type - IV Hypersensitivity.
6. Weil's disease.
7. Rat bite fever.
8. Meningococcal meningitis.
9. Pathogenesis of gas gangrene.
10. Bacteroides.
11. Autoimmunity.
12. Gene transfer in bacteria.

SHORT ANSWERS **10 X 3 = 30 Marks**

13. Urease test.
14. Pastuerisation.
15. Immunoglobulin M
16. Uses of gram's stain.
17. Difference between alpha hemolytic streptococci and pneumococci.
18. Co-agglutination.
19. Swarming in proteus.
20. Sereny test.
21. Neil Mooser's reaction.
22. HP bodies.

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MICROBIOLOGY– PAPER II

Q.P Code : SDUU-110

Your answers should be specific to the questions asked.
Draw neat labelled diagrams wherever necessary.

LONG ESSAY **2 X 10 = 20 Marks**

1. Describe the life cycle and laboratory diagnosis of plasmodium vivax.
2. Classify Myxo viruses infecting man. Describe the morphology, pathogenesis and laboratory diagnosis of H5N1 Virus.

SHORT ESSAY **10 X 5 = 50 Marks**

3. Dimorphic fungi.
4. Lab diagnosis of Ancylostoma duodenale.
5. Classify nematodes infecting man.
6. Saprophytic amoebae.
7. Laboratory diagnosis of Leishmania.
8. Cryptosporidium parvum.
9. Cell cultures.
10. Epstein –Barr virus.
11. Opportunistic infections in AIDS patients.
12. Dengue fever.

SHORT ANSWERS **10 X 3 = 30 Marks**

13. Vectors.
14. Non-neural Rabies vaccine.
15. Hepatitis A virus.
16. Slow viruses.
17. Polio vaccines.
18. Kerato-mycosis.
19. Mycotoxins.
20. Xeno-diagnosis.
21. Prevention of hospital acquired infections.
22. N.N.N medium.

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MICROBIOLOGY– PAPER I

Q.P Code : RS-109

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Draw neat labelled diagrams wherever necessary.

LONG ESSAY (Answer any Two) **2 X 10 = 20 Marks**

1. Describe the structure of immunoglobulin with neat labelled diagram. Write in detail about the different types of immunoglobulins and their functions.
2. Define sterilization and disinfection. Enumerate the moist heat methods of sterilization with special emphasis on autoclave for sterilization in health care system.
3. Write in detail about the pathogenesis, clinical manifestations, complications of diphtheria. Add a note on immune prophylaxis of diphtheria.

SHORT ESSAY (Answer any Ten) **10 X 5 = 50 Marks**

4. Bacterial flagella.
5. Genetic mechanisms of bacterial drug resistance.
6. Type IV hypersensitivity.
7. Antibody mediated immune response.
8. Laboratory diagnosis of Group B Streptococci.
9. Tetanus.
10. Atypical Mycobacteria.
11. Laboratory diagnosis of typhoid fever.
12. Halophilic vibrio.
13. Elisa.
14. Leptospirosis.
15. Laboratory diagnosis of brucellosis.

SHORT ANSWERS (No choices) **10 X 3 = 30 Marks**

16. Four bacteria causing urinary tract infection.
17. Cervicofacial actinomycosis.
18. HLA typing methods.
19. Atopy.
20. Membrane Attack Complex.
21. Indole test.
22. Quellung reaction.
23. Gram staining findings of Cutaneous anthrax with a diagram.
24. Coagulase test.
25. Difference between Exotoxin and Endotoxin.

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MICROBIOLOGY– PAPER II

Q.P Code : RS-110

Your answers should be specific to the questions asked.
Draw neat labelled diagrams wherever necessary.

LONG ESSAY (Answer any Two) **2 X 10 = 20 Marks**

1. Describe the life cycle, pathogenesis and laboratory diagnosis of echinococcus granulsosus.
2. Name the viruses causing hepatitis. Describe the laboratory diagnosis and prophylaxis of hepatitis B virus.
3. Discuss the various methods for isolation of viruses in the laboratory.

SHORT ESSAY (Answer any Ten) **10 X 5 = 50 Marks**

4. Laboratory diagnosis of malaria.
5. Universal precautions.
6. Amoebic dysentery.
7. Viral haemorrhagic fevers.
8. Life cycle and diagnosis of toxoplasma gondii.
9. Lab diagnosis of W.Bancroftii.
10. Life cycle and diagnosis of ankylostoma duodenale.
11. Cryptococcus neoformans.
12. Laboratory diagnosis of HIV infection.
13. Describe about hospital acquired infections and its prevention.
14. Dermatophytes.
15. Describe in brief about prophylaxis for rabies.

SHORT ANSWERS (No choices) **10 X 3 = 30 Marks**

16. Name three opportunistic fungal infection associated with HIV.
17. Raynaud-Braude phenomenon.
18. Name three bile stained eggs.
19. Draw a neat diagram of giardia trophozoite and label.
20. Name three live viral vaccines.
21. Name three parasites causing eye infection.
22. Name four viruses transmitted through mosquito.
23. Name three antifungal agents.
24. Name three parasites transmitted through penetration of skin.
25. Biomedical waste management.

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