

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

M.B.B.S. PHASE - II Degree Examination – January-2014

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 and enumerate Antigen-Antibody reactions. Write in detail about agglutination reactions along with their role in laboratory diagnosis.
2. Enumerate Rickettsial infections. Write in detail about the pathogenesis and laboratory diagnosis of typhus fever.

SHORT ESSAY

10 X 5 = 50 Marks

3. Bacterial flagella.
4. Mechanisms of innate immunity.
5. Laboratory diagnosis of cholera.
6. Anaphylaxis.
7. Hot air oven.
8. Mechanisms of autoimmunity.
9. Laboratory diagnosis of staphylococcal infections.
10. Mechanisms of drug resistance.
11. Prophylaxis of diphtheria.
12. Lepra reaction.

SHORT ANSWERS

10 X 3 = 30 Marks

13. Edward Jenner.
14. Define pandemic disease. Give two examples
15. ASO test.
16. Define transport medium. Give two examples
17. Adjuvants.
18. Nongonococcal urethritis.
19. Herd immunity.
20. Clot culture.
21. List three antigen presenting cells.
22. Chancroid.

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MICROBIOLOGY– PAPER II

Q.P Code : SDUU-110

*Your answers should be specific to the questions asked.
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LONG ESSAY

2 X 10 = 20 Marks

1. Enumerate the haemoparasites. Mention different plasmodium spp. Write in detail about pathogenesis, clinical features, acute complications and lab diagnosis of P. Falciparum.
2. Enumerate the arboviruses prevalent in india. Write in detail about pathogenesis, laboratory diagnosis and prophylaxis of Japanese B.Encephalitis.

SHORT ESSAY

10 X 5 = 50 Marks

3. Giardia intestinalis.
4. Laboratory diagnosis of HIV infection.
5. Occult filariasis.
6. Amoebic hepatitis.
7. Tinea versicolor.
8. Epstein –Barr virus.
9. Prophylaxis against Rabies.
10. Cysticercosis.
11. Cryptococcus Neoformans.
12. Human papilloma virus .

SHORT ANSWERS

10 X 3 = 30 Marks

13. Name four opportunistic fungi.
14. Prophylaxis against HBV infection.
15. Human prion diseases.
16. Inclusion bodies.
17. Microfilaria.
18. LD body.
19. Ectothrix and Endothrix infection.
20. Name four parasitic infections in immuno compromised patients.
21. Slide culture.
22. Cyclops.

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LONG ESSAY

2 X 10 = 20 Marks

1. Define and classify hypersensitivity. Describe type-I hypersensitivity.
2. Discuss the pathogenesis and laboratory diagnosis of syphilis.

SHORT ESSAY

10 X 5 = 50 Marks

3. Bacterial mutation.
4. Passive immunity.
5. Immunofluorescence .
6. Graft versus host reaction.
7. Monoclonal antibodies.
8. Toxin mediated staphylococcal diseases.
9. Virulence tests for corynebacterium diphtheriae.
10. Atypical mycobacteria.
11. Bubonic plague.
12. Diarrhoeagenic Escherichia coli.

SHORT ANSWERS

10 X 3 = 30 Marks

13. Flagella.
14. Filtration .
15. Transport media.
16. Carriers.
17. Louis pasteur.
18. Non-suppurative complications of streptococcus pyogenes.
19. Botulism.
20. Vibrio parahemolyticus.
21. Legionella pneumophila.
22. Pertussis.

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MICROBIOLOGY– PAPER II

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LONG ESSAY

2 X 10 = 20 Marks

1. Classify myxoviruses. Discuss the morphology, antigenic variations and laboratory diagnosis of influenza virus and infections.
2. Describe the morphology, life cycle and laboratory diagnosis of infections caused by *Toxoplasma gondii*.

SHORT ESSAY

10 X 5 = 50 Marks

3. *Histoplasma capsulatum*.
4. Laboratory diagnosis of hepatitis B virus infections.
5. Japanese B encephalitis.
6. Giardiasis.
7. Extra intestinal amoebiasis.
8. Hydatid cyst.
9. Complications of falciparum malaria.
10. Viral diarrhea.
11. Slow viral infections.
12. Non neural vaccines against Rabies.

SHORT ANSWERS

10 X 3 = 30 Marks

13. *Cysticercus cellulosae*.
14. Mention the parasites found in peripheral blood smear.
15. Papilloma virus.
16. Structure of human Immuno deficiency virus.
17. Concentration techniques for stool examination.
18. Cercariae.
19. Oral thrush.
20. Mucormycosis.
21. Pulse polio programme.
22. Adenoviral infections.