

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

M.B.B.S. PHASE – I Degree Examination – July-2012

Time : 3 Hrs.

[Max. Marks : 100]

MICROBIOLOGY– PAPER I

Q.P Code : 109 - SDUU

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. List the different classes of immunoglobulins. Describe the structure and biological functions of immunoglobulin that crosses the placenta.
2. Enumerate bacterial causes of PUO. Describe the morphology and laboratory diagnosis of syphilis.

SHORT ESSAY

10 X 5 = 50 Marks

3. Eltor vibrio.
4. Sterilisation by filtration.
5. Tric agents.
6. HLA typing.
7. Transposons.
8. Laboratory diagnosis of plague.
9. Bacterial spore.
10. Lepromin test.
11. Graft versus host disease.
12. Classical complement pathway.

SHORT ANSWERS

10 X 3 = 30 Marks

13. Negler's reaction.
14. Classification of streptococci.
15. Enriched media.
16. Rickketsial antigen.
17. Herd immunity.
18. Photo chromogens.
19. Dark ground microscopy.
20. Diagnostic tests for helicobacter pylori.
21. Transfer factor.
22. Rat bite fever.

MICROBIOLOGY – PAPER II

Q.P Code : 110 - SDUU

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Classify cestodes. Describe the pathogenesis and laboratory diagnosis of hydatid disease.
2. Describe the morphology and immunopathogenesis of HIV. Discuss the laboratory diagnosis of HIV/AIDS.

SHORT ESSAY

10 X 5 = 50 Marks

3. Free living amoebae.
4. Laboratory diagnosis of malaria.
5. Discuss the methods of virus isolation.
6. Nosocomial infections.
7. Polio vaccines.
8. Microbiological analysis of water.
9. Strongyloides stercoralis.
10. Cryptosporidium parvum.
11. Laboratory diagnosis of amoebiasis.
12. Trichomonas vaginalis.

SHORT ANSWERS

10 X 3 = 30 Marks

13. Name three slow viral infections.
14. Name three congenital viral infections.
15. Name three different viruses causing hepatitis.
16. Mention three cytopathic effects seen in viral infections.
17. Name three opportunistic fungal infections.
18. Write the differences between ortho and paramyxoviruses.
19. Describe the structure of influenza virus.
20. Mention three antifungal agents.
21. Mention three viruses causing gastroenteritis.
22. Mention the arboviral infections seen in India.

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M.B.B.S. PHASE - II Degree Examination – July-2012

Time : 3 Hrs.

[Max. Marks : 100]

MICROBIOLOGY - PAPER I

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Discuss the etiology, pathogenesis and laboratory diagnosis in a case of suspected enteric fever.
2. Define the term sterilization. Discuss the principle, design, use and quality control of laboratory autoclave.

SHORT ESSAY

10 X 5 = 50 Marks

3. Bacterial conjugation.
4. Draw a neat labeled diagram of IgM molecule.
5. Bacterial capsule.
6. Graft versus host reaction.
7. Toxigenicity testing for *Corynebacterium diphtheriae*.
8. Pathogenicity of Gonorrhoea.
9. Type II Hypersensitivity reaction.
10. Phagocytosis.
11. Bacterial filters.
12. Laboratory diagnosis of rheumatic fever.

SHORT ANSWERS

10 X 3 = 30 Marks

13. Satellitism.
14. Cough plate technique.
15. Cold agglutination test.
16. *Helicobacter pylori*.
17. Mantoux test.
18. Naglers reaction.
19. Weil Felix Test.
20. List brucellae pathogenic to humans
21. Mitsuda reaction.
22. Quellung reaction.

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M.B.B.S. PHASE - II Degree Examination – July-2012

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[Max. Marks : 100]

MICROBIOLOGY – PAPER II

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Out line the life cycle of *Ascaris lumbricoides*. Describe the pathogenesis, laboratory diagnosis and complications of Ascariasis.
2. Describe in detail the pathogenesis, laboratory diagnosis and prophylaxis of rabies.

SHORT ESSAY

10 X 5 = 50 Marks

3. Laboratory diagnosis of kala azar.
4. *Trichomonas vaginalis*.
5. *Cysticercus cellulosae*.
6. Interferons.
7. Prions.
8. *Molluscum contagiosum*.
9. Aspergillosis.
10. *Microfilariae*.
11. Cultivation of viruses.
12. Antigenic variations in influenza virus.

SHORT ANSWERS

10 X 3 = 30 Marks

13. Shipyard eye.
14. Koplik's spots.
15. Athletes foot.
16. Cyclops.
17. Asexual spores of fungi.
18. Congenital Rubella syndrome.
19. Xenodiagnosis.
20. Oncogenic DNA Viruses.
21. Methods for concentrating stool specimen.
22. Paul Bunnell Test.