

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

M.B.B.S. PHASE - II Degree Examination – July-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 labeled diagrams wherever necessary.*

LONG ESSAY

2 X 10 = 20 Marks

1. Classify Mycobacteria infecting man. Describe the lab.diagnosis of pulmonary tuberculosis.
2. Define and classify immunity. Describe in detail the mechanism of innate immunity.

SHORT ESSAY

10 X 5 = 50 Marks

3. P.C.R
4. Disinfectants.
5. Widal test.
6. Delayed hypersensitivity.
7. H.L.A system.
8. Clostridium perfringens toxins.
9. Lab.diagnosis of cholera.
10. Mycoplasma.
11. Q fever
12. Lyme disease.

SHORT ANSWERS

10 X 3 = 30 Marks

13. Robert koch.
14. Enriched medium.
15. IgA
16. Properdin pathway.
17. Tumor antigens.
18. Coagulase test.
19. Lancefield classification of streptococci.
20. Burkholderia pseudomallei.
21. MDR-TB
22. TRIC agents

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MICROBIOLOGY– PAPER II

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LONG ESSAY

2 X 10 = 20 Marks

1. Classify intestinal nematodes. Describe the morphology and life cycle of ankylostoma duodenale and laboratory diagnosis of hookworm infestation.
2. List the arboviruses prevalent in India. Describe the aetiology and laboratory diagnosis of Japanese B encephalitis.

SHORT ESSAY

10 X 5 = 50 Marks

3. Sporothrix schenkii.
4. Antiviral agents.
5. Mycotoxins.
6. Von magnus phenomenon.
7. Inclusion bodies.
8. Laboratory diagnosis of Leishmania Donovanii.
9. Toxoplasma.
10. Hepatitis E virus.
11. Significance of viral markers in HIV infection.
12. Enterobius vermicularis.

SHORT ANSWERS

10 X 3 = 30 Marks

13. Mention the normal microbial flora of skin.
14. Types of biomedical waste.
15. Zoonotic diseases.
16. Cyclops.
17. Mention types of tissue culture.
18. Lung fluke.
19. Name three bile stained eggs.
20. Germ tube test.
21. Free living amoeba.
22. Diagram of balantidium coli

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LONG ESSAY (Answer any Two)

2 X 10 = 20 Marks

1. Define sterilisation and disinfection. Write in detail moist method of sterilization.
2. Classify hypersensitivity. Discuss type I hypersensitivity with a diagram.
3. Classify mycobacteria. Write pathogenesis and laboratory diagnosis of tuberculosis.

SHORT ESSAY (Answer any Ten)

10 X 5 = 50 Marks

4. Transfer factor.
5. Clinical application of agglutination tests.
6. Bacterial growth curve.
7. Mutation.
8. Laboratory diagnosis of corynebacterium diphtheria .
9. Monoclonal antibodies.
10. Enterotoxigenic E.coli.
11. Lab diagnosis of enteric fever.
12. Haemophilus ducreyi.
13. Lab diagnosis of leptospira.
14. Rat bite fever.
15. Atypical mycobacteria.

SHORT ANSWERS (No Choices)

10 X 3 = 30 Marks

16. Immuno deficiency disease.
17. Differential media.
18. Causes of non gonococcal urithritis.
19. Toxic shock syndrome.
20. Halophilic vibrios
21. Bacteriological and morphological index.
22. Name Heterophil agglutination tests.
23. Classification of streptococci.
24. TSI
25. Difference between C.Diphtheria and Diphtheroids

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LONG ESSAY (Answer any two)

2 X 10 = 20 Marks

1. Pathogenesis, routes of transmission and laboratory diagnosis of human immunodeficiency virus infection. Name three drugs used in antiretroviral therapy.
2. List out the malarial parasites infecting man. Describe the life cycle and laboratory diagnosis of malaria.
3. Describe the life cycle of dracunculus medinensis and add a note on preventive measures.

SHORT ESSAY (Answer any ten)

10 X 5 = 50 Marks

4. Candidiasis.
5. Cryptosporidiosis.
6. Dengue fever.
7. Life cycle and laboratory diagnosis of ancylostoma duodenale.
8. Laboratory diagnosis of poliomyelitis.
9. Extra intestinal amoebiasis.
10. Life cycle and laboratory diagnosis of strongyloides stercoralis.
11. Polymerase chain reaction in microbiology.
12. Dermatophytes.
13. Pathogenesis and laboratory diagnosis of acute herpes simplex virus.
14. Laboratory diagnosis of rabies.
15. Slow viral disease in man.

SHORT ANSWERS (No Choices)

10 X 3 = 30 Marks

16. Name the two parasites that cause anemia. Mention the type of anemia caused.
17. Name the vector of a) Malaria b) Filariasis c) Leshmaniasis
18. Measles Mumps Rubella (MMR) vaccine
19. Name three viruses causing gastroenteritis.
20. NIH SWAB.
21. Hand hygiene in hospital infection control.
22. Casoni's test.
23. Name three viral infections acquired by transplacental transmission.
24. Name three dimorphic fungi.
25. NNN media.