

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

Post Graduate Degree Examination – April / May - 2015

Time : 3 Hrs.

[Max. Marks : 100]

M.D MICROBIOLOGY

PAPER - I

Q.P Code : RS2201

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

10 X 10 = 100 Marks

1. Describe the various modifications of conventional biochemical tests.
2. What are monoclonal antibodies? Describe the preparation and uses of monoclonal antibodies.
3. What are Nucleic acid probes? What are their applications.
4. Describe the various blotting techniques employed in diagnostic immunology.
5. Describe the applications of automated microbiology systems.
6. Discuss the various types of microscopes used in the clinical microbiology laboratory.
7. Define cytokines. What are their functions?
8. Discuss the classification of transplants and the allograft reaction.
9. What is spaulding's classification? Describe the chemicals used in sterilization.
10. Describe the host defense mechanisms of innate immunity.

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[Max. Marks : 100]

M.D GENERAL MEDICINE

PAPER - IV

Q.P Code : RS-3104

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

10 X 10 = 100 Marks

1. Explain the causes, diagnostic evaluation and management of rapidly progressive glomerulonephritis (RPGN).
2. Explain the evaluation and management of complicated pyelonephritis.
3. Explain the management of urticaria, angiooedema and anaphylaxis.
4. Explain the classification, clinical features, diagnostic approach and management of systemic amyloidoses.
5. Explain the approach to clinical and diagnostic evaluation of haemolytic anemia in the adult.
6. Discuss in detail about metabolic syndrome and clinical management.
7. Explain the approach to alcoholic detoxification and deaddiction therapy.
8. What are the clinical features, diagnostic evaluation and management of acute paracetamol overdose?
9. Enumerate clinical hypoglycemia, mechanism of counter-regulation and managing all acute hypoglycemia in all elderly diabetic on OHA.
10. How will you manage a patient who comes one hour after a snake bite with ptosis, ophthalmoplegia and bleeding from the wound and red urine?

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M.D MICROBIOLOGY

PAPER - III

Q.P Code : RS-2203

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

LONG ESSAY

10 X 10 = 100 Marks

1. Pneumocystis jirovecii.
2. Discuss in brief lab diagnosis of candida albicans.
3. F histoplasma capsulatum.
4. Hepatitis C virus.
5. Viral diarrhoea.
6. Describe morphology, pathogenesis and lab-diagnosis of HIV virus.
7. Classify herpes viruses. Mention their general characteristics and add a brief note on herpes simplex virus.
8. Describe in detail about viral multiplication.
9. Oncogenic viruses.
10. Rubella.

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M.D MICROBIOLOGY

PAPER - IV

Q.P Code : RS-2204

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

10 X 10 =100 Marks

1. Hospital acquired infections.
2. Biomedical waste management.
3. Emerging viral infections-Ebola.
4. Sterilization and disinfection methods in virology laboratory.
5. Classify haemofagellates. Write in brief pathogenesis and lab diagnosis of L.Donovoni. Add a its prophylaxis.
6. Classify filarial worms. Discuss in brief W. Bancroftii.
7. Quality management in a microbiology laboratory.
8. Rapid Diagnostic tests.
9. Cryptosporidiosis.
10. Larva migrans.

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