

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH**(A DEEMED TO BE UNIVERSITY)****Post Graduate Degree Examination – May - 2013****Time : 3 Hrs.****[Max. Marks : 100]****M.D MICROBIOLOGY****PAPER - I****Q.P Code : 2201***Your answers should be specific to the questions asked.**Draw neat labelled diagrams wherever necessary.***LONG ESSAY****2 X 20 = 40 Marks**

1. Discuss the immunology of transplantation.
2. Discuss the principle, procedure and applications of polymerase chain reaction.

SHORT ESSAY**6 X 10 = 60 Marks**

3. Bacterial spores.
4. Plasmids.
5. Monoclonal antibodies and their therapeutic uses.
6. HEPA filters with specific mention to their efficiency testing.
7. Complement in health and diseases.
8. Compare T and B lymphocytes.

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M.D MICROBIOLOGY

PAPER - II

Q.P Code : 2202



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

LONG ESSAY

2 X 20 = 40 Marks

1. Classify mycoplasma. Describe the importance of mycoplasma as human pathogen and lab diagnosis of infections caused by mycoplasma.
2. Classify dermatophytes. Enumerate the infections caused by dimorphic fungi and describe laboratory diagnosis of histoplasma capsulatum

SHORT ESSAY

6 X 10 = 60 Marks

3. Non albicans candida
4. Penicillium marneffeii
5. Community acquired MRSA
6. Typhus fever
7. Mycotoxicosis.
8. Nonsporing Anaerobes.

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M.D MICROBIOLOGY

PAPER - III

Q.P Code : 2203



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

2 X 20 = 40 Marks

1. Enumerate the parasites causing anaemia. Write in detail about the life cycle, clinical manifestations and lab diagnosis of diphyllbothrium latum infestation.
2. Enumerate the arbo viral infections in india. Write in detail about the pathogenesis, clinical syndromes, complications and laboratory diagnosis of dengue viral infections.

SHORT ESSAY

6 X 10 = 60 Marks

3. Role of tissue cultures in the diagnostic virology.
4. Aseptic meningitis and its management.
5. Intestinal coccidian parasites in AIDS.
6. Stool concentration techniques including their merits and demerits.
7. Extra intestinal amoebiasis and its laboratory diagnosis.
8. Food – borne hepatitis and its management.

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Draw neat labelled diagrams wherever necessary.*

LONG ESSAY**2 X 20 = 40 Marks**

1. Automated and semi automated systems in diagnostic microbiology.
2. Emerging parasitic infections and the laboratory techniques to diagnose them.

SHORT ESSAY**6 X 10 = 60 Marks**

3. Bacteriological examination of milk.
4. Methods to detect microbial load in operation theatre.
5. Ventilator associated pneumonia and their present status in tertiary care hospitals.
6. Bio – medical waste management.
7. MDR strains of salmonella.
8. Immunization schedules in India.