12

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

Post Graduate Degree Examination – November - 2012

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 bacterial variations. Describe the methods of detection of mutation.
2. Describe antigen presenting cells. Discuss role of macrophages in host defense.

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

3. Beta lactamases
4. Porins of gramnegative bacteria
5. Immunoglobulin 'E'
6. Enzyme immunoassays
7. Biosafety cabinet
8. Chemical disinfectants

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11

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Post Graduate Degree Examination – November - 2012

Time : 3 Hrs. **[Max. Marks : 100]**

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. Enumerate human infections caused by spirochaetes and discuss their lab diagnosis.
2. Write an essay on Mycotoxins.

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

3. Give an account of agents causing Mycetoma
4. Enumerate Bacterial Zoonotic diseases. Discuss lab diagnosis of Brucellosis
5. Enumerate Oppurtunistic fungal infections and their lab diagnosis
6. Toxins and Enzymes of Staphylococcus aureus and their pathogenic effects
7. Pathogenesis and lab diagnosis of Mycobacteria other than tuberculosis
8. Lab diagnosis of Dermatophytes

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10

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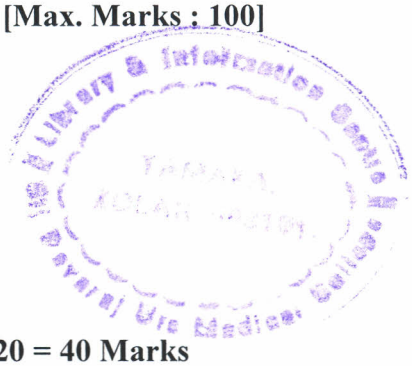

M.D MICROBIOLOGY

PAPER III

Q.P Code : 2203

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

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

1. Classify ARBO-viruses. Discuss epidemiology, actiopathogenises and laboratory diagnosis Dengue fever and its complications.
2. Classify Nematodes. Describe life-cycle, pathogenicity and laboratory diagnosis of a nematode of the lymphatic system.

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

3. Describe the stool concentration and egg-counting methods.
4. Enumerate haemoflagellates, and laboratory diagnosis of kala agar
5. Free-living amoeba
6. Antiretroviral resistance testing
7. Ebola virus
8. Ocular viral infections

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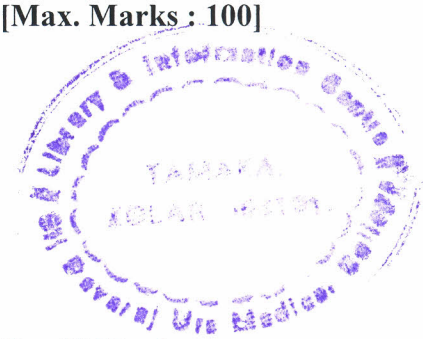
Post Graduate Degree Examination – November - 2012

9

Time : 3 Hrs. **[Max. Marks : 100]**



M.D MICROBIOLOGY

PAPER IV

Q.P Code : 2204

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

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

1. Role of clinical microbiologist in hospital infection control
2. Recent advances in the lab diagnosis of tuberculosis

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

3. Biomedical waste management
4. Microarrays
5. Dendrogram
6. HIV vaccines
7. Real time polymerase chain reaction (RT-PCR)
8. Gene therapy

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