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SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH
(A DEEMED TO BE UNIVERSITY)

Post Graduate Degree Examination – April / May - 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. Vapor phase & aerial disinfectants
2. Development, differentiation, activation, circulation & functions of lymphocytes

SHORT ESSAY

6 X 10 = 60 Marks

3. Biofilm
4. Nephelometry
5. Probiotics
6. Immunomodulators
7. Edible vaccines
8. Gene therapy

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M.D. MICROBIOLOGY

PAPER II

Q.P Code : 2202

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LONG ESSAY

2 X 20 = 40 Marks

1. List the invasive enteric infections. Describe the pathogenicity and laboratory diagnosis of any one of them.
2. Write an essay on Chlamydiae which cause human disease.

SHORT ESSAY

6 X 10 = 60 Marks

3. Pathogenicity of Vibrio cholera
4. Identification and Classification of Bacteroides group
5. Epidemiology, lab diagnosis and control of anthrax in man
6. Rate bite fever
7. Antigenic structure, determinants of pathogenicity of staphylococci
8. Diphtheria toxin

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1. Classify arboviruses. Discuss arboviral diseases in India, pathogenesis and laboratory diagnosis of dengue fever.
2. Classify filarial worms. Discuss about filarial worms in India.

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

3. Monitoring of HIV infection
4. Superficial mycosis
5. Opportunistic amoebae
6. Oncogenic viruses
7. Mycotoxins
8. Drug resistance in malaria

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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. Discuss in detail the principle and application of immunofluorescence in diagnostic microbiology.
2. Give an account of hospital infections. Discuss the role of microbiologist in control of hospital infections.

SHORT ESSAY

6 X 10 = 60 Marks

3. Recombinant DNA technology
4. Automated culture systems in bacteriology
5. HPV vaccine-recent advances
6. Catheter associated blood stream infections
7. Metallobetalactamase producers
8. Flow cytometry and its application in microbiology

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