



[Time: 3 Hours]

[Max. Marks: 100]

MICROBIOLOGY

**GENERAL MICROBIOLOGY AND IMMUNOLOGY
PAPER – I (RS)**

Q.P. CODE: 7355

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary. Answer all questions

LONG ESSAY

2 X 20 = 40 Marks

1. What are Monoclonal antibodies? Discuss their applications
2. Describe structure and functions of Immune system. Discuss CD 4 cell differentiation and its role in Immunity

SHORT ESSAY

6 X 10 = 60 Marks

3. Fluorescent Microscopy
4. Polymerase chain reaction
5. Chemical agents of sterilization
6. Transformation
7. Interleukins
8. Differences between Exotoxins and Endotoxins

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Rajiv Gandhi University of Health Sciences, Karnataka
Post Graduate Degree Examination – NOV 2016

Time: Three Hours

Max. Marks: 100 Marks

**MD MICROBIOLOGY
SYSTEMATIC BACTERIOLOGY
PAPER- II
(Revised Scheme)
Q. P. CODE: 7356**

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

LONG ESSAYS

2 x 20 = 40 Marks

1. Describe the pathogenesis, laboratory diagnosis and prophylaxis of pulmonary Tuberculosis. Add a note on RNTCP.
2. Discuss the laboratory diagnosis of Rickettsial diseases

SHORT ESSAYS

6 x 10 = 60 Marks

3. Streptococcus agalactiae
4. Legionella pneumophila
5. Nongonoccal urethritis
6. Diarrhoeagenic E.coli
7. MDR Bacteria
8. Halophilic Vibrios

Rajiv Gandhi University of Health Sciences, Karnataka
Post Graduate Degree Examination – NOV 2016

Time: Three Hours

Max. Marks: 100 Marks

MD MICROBIOLOGY
SYSTEMATIC BACTERIOLOGY
MYCOLOGY AND VIROLOGY
PAPER- III
(Revised Scheme)
Q. P. CODE: 7357

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

LONG ESSAYS

2 x 20 = 40 Marks

1. Discuss the Hepatitis viruses
2. Discuss the epidemiology and laboratory diagnosis of fungaemia. Add a note on molecular diagnostic tests in the diagnosis of fungal infections.

SHORT ESSAYS

6 x 10 = 60 Marks

3. Molecular methods for diagnosis of Viral encephalitis
4. Antifungal susceptibility test
5. Dermatophytoses
6. Viral haemorrhagic fever
7. Mycetism
8. Inclusion bodies



Rajiv Gandhi University of Health Sciences

M.D. Degree Examination – NOV 2016

[Time: 3 Hours]

[Max. Marks: 100]

MICROBIOLOGY

SYSTEMATIC BACTERIOLOGY PARASITOLOGY - PAPER – IV

Q.P. CODE: 7358

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary. Answer all questions

LONG ESSAY

2 X 20 = 40 Marks

1. Discuss the life cycle, pathogenesis and laboratory diagnosis of *Plasmodium vivax*
2. Discuss the life cycle, pathogenesis and laboratory diagnosis of *Schistosoma haematobium*.

SHORT ESSAY

6 X 10 = 60 Marks

3. Chagas disease
4. *Paragonimus westermani*
5. Babesiosis
6. Hydatid cyst
7. Stool concentration methods
8. *Microfilaria*
