# Rajiv Gandhi University of Health Sciences

**M.D. Degree Examination - May 2011**

[Time: 3 Hours] [Max. Marks: 100

**MICROBIOLOGY**

**SYSTEMATIC BACTERIOLOGY**

**PAPER – II (RS)**

## Q.P. CODE : 7356

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

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

1. Classify rickettsiae. Describe the pathogenesis and laboratory diagnosis of Q-fever.
2. Enumerate non-fermentors. Describe laboratory diagnosis of Pseudomonas infections.

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

3. Haemophilus ducreyi
4. BCG Vaccine
5. H. Ducreyi
6. Vancomycin resistant Enterococci
7. Bacterial food poisoning
8. Leptospirosis

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# Rajiv Gandhi University of Health Sciences

**M.D. Degree Examination – May 2011**

Time: 3 Hours] [Max. Marks: 100]

## MICROBIOLOGY

### MYCOLOGY AND VIROLOGY

### PAPER – III (RS)

## Q.P. CODE: 7357

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**

Discuss epidemiology, pathogenesis and laboratory diagnosis of HIV infection

List fungi causing opportunistic infections. Discuss pathogenesis and laboratory diagnosis of Aspergillosis

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

Anti – rabies vaccines

Delta hepatitis virus

Swine flu agent and prophylaxis against it

Slide culture technique for fungi

Mycotoxicosis

Diamorphic fungus

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CENTRAL LIBRARY

# Rajiv Gandhi University of Health Sciences

**M.D. Degree Examination – May 2011**

[Time: 3 Hours] [Max. Marks: 100]

## MICROBIOLOGY

### 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. Enumerate Trematodes infecting man. Discuss life cycle, pathogenicity and laboratory diagnosis of schistosomiasis
2. Discuss morphology. Life cycle, pathogenesis and Laboratory diagnosis of infections caused by Leishmania donvani

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

3. Role of peripheral smear in diagnosis of parasitic infections
4. Pneumocytis jeruveci
5. Babesiosis
6. Newer and rapid tests for diagnosis of malaria
7. Laboratory diagnosis of Toxoplasma gondii infections
8. Trichomonas vaginalis

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# Rajiv Gandhi University of Health Sciences

**M.D. Degree Examination - Nov 2011**

[Time: 3 Hours] [Max. Marks: 100]

## MICROBIOLOGY

### GENERAL MICROBIOLOGY AND IMMUNOLOGY

### PAPER – I

## Q.P. CODE: 7351

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 mechanism of action of antimicrobial agents with examples. Discuss the quality control measures for susceptibility testing
2. Discuss the role of complement in health and disease

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

3. Sterilization of operation theatre
4. Role of Bacterial appendages in virulence
5. DNA microarray and its applications
6. Hospital Infection Control
7. Recombinant DNA technology
8. Major histocompatibility complex

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# Rajiv Gandhi University of Health Sciences

**M.D. Degree Examination - Nov 2011**

[Time: 3 Hours] [Max. Marks: 100]

**MICROBIOLOGY**

**SYSTEMATIC BACTERIOLOGY**

**PAPER – II**

## Q.P. CODE: 7352

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. Mention the organisms causing bacterial pyogenic meningitis. Explain the epidemiological importance, laboratory diagnosis and management of meningococcal meningitis
2. Classify chlamydiae. Discuss the pathogenesis and laboratory diagnosis of chlamydial infections in man

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

3. Vancomycin resistant enterococci
4. Lyme's disease
5. Leptospirosis
6. Q fever
7. Helicobacter pylori
8. Laboratory diagnosis of pulmonary tuberculosis

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# Rajiv Gandhi University of Health Sciences

**M.D. Degree Examination - Nov 2011**

[Time: 3 Hours] [Max. Marks: 100]

**MICROBIOLOGY**

**MYCOLOGY AND VIROLOGY**

**PAPER – III**

## Q.P. CODE: 7353

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. Enumerate the viruses causing aseptic meningitis, Discuss in detail the Lab diagnosis of aseptic meningitis
2. Discuss in detail the fungal infections occurring in immunocompromised patients and note on Lab diagnosis

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

3. Bacteriophage
4. Ebola virus
5. Hepatitis A virus
6. Tinea versicolor
7. Slide culture technique
8. Phaeohyphomycosis

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# Rajiv Gandhi University of Health Sciences

**M.D. Degree Examination – Nov 2011**

[Time: 3 Hours] [Max. Marks: 100]

**MICROBIOLOGY**

**PARASITOLOGY - PAPER – IV**

## Q.P. CODE: 7354

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. Describe the morphology, lifecyle, laboratory diagnosis and treatment of visceral leishmaniasis
2. Enumerate the parasites affecting the liver. Explain in detail about the lifecyle, pathogenesis, and laboratory diagnosis of any one in detail

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

3. Toxoplasmosis
4. Larva migrans
5. Laboratory diagnosis of malaria
6. Zoonotic filariasis
7. Eosinophilic meningoencephalitis
8. Hydatid disease

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# Rajiv Gandhi University of Health Sciences

**M.D. Degree Examination - Nov 2011**

[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. Enumerate various antigen antibody reaction and describe precipitation reaction highlighting their clinical applications
2. Describe various bacterial virulence factors and discuss their role in pathogenesis of infections

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

3. Graft rejection
4. Methods used for testing efficacy of autoclave
5. Role of T cells in cell mediated immunity
6. Nosocomial infections
7. Hybridoma technology and its applications
8. Bacterial adhesins

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# Rajiv Gandhi University of Health Sciences

**M.D. Degree Examination - Nov 2011**

[Time: 3 Hours] [Max. Marks: 100]

**MICROBIOLOGY**

**SYSTEMATIC BACTERIOLOGY**

**PAPER – II (RS)**

## Q.P. CODE : 7356

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. Enumerate organisms causing enteric fever. Discuss Special pathogenesis and laboratory diagnosis of enteric fever with especial reference to newer techniques
2. Discuss etiopathogenesis of neonatal meningitis. Describe laboratory disgnosis of bacterial meningitis with special reference to biochemical tests, culture techniques and newer methods

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

3. Laboratory diagnosis of leptospirosis
4. Group 'B' beta hemolytic streptococci
5. Halophilic vibrios
6. Etiological agents of bacterial food poisoning
7. Traveller's Diarrhoea
8. Nongonococcal urethritis

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# Rajiv Gandhi University of Health Sciences

**M.D. Degree Examination – Nov 2011**

[Time: 3 Hours] [Max. Marks: 100]

**MICROBIOLOGY**

**MYCOLOGY AND VIROLOGY**

**PAPER – III (RS)**

## Q.P. CODE: 7357

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. Classify Myxoviruses. Describe the pathogenesis, laboratory diagnosis and prophylaxis of influenza A H1N1.
2. Classify fungal spores. Describe pathogenesis and laboratory diagnosis of dermatophytic infections.

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

3. Mycotoxins
4. Viral inclusions
5. Dematacious Fungi
6. Laboratory diagnosis of Candida infections
7. HIV Testing Strategies
8. Rabies vaccines

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# Rajiv Gandhi University of Health Sciences

**M.D. Degree Examination – Nov 2011**

[Time: 3 Hours] [Max. Marks: 100]

## MICROBIOLOGY

**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. Classify blood flukes. Describe laboratory diagnosis of infections caused by blood flukes.

2. Describe the life cycle, pathogenesis and laboratory diagnosis of leisjmania tropica.

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

3. Media used for growing parasites
4. Concentration techniques for stool
5. Fasciola hepatica
6. Trypanosome brucei
7. Microfilaria
8. Pulmonary manifestations of parasitic disease

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