Rajiv Gandhi University of Health Sciences

M.D. Degree Examination - May 2012

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

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

1. What are nosocomial infections? Discuss steps taken to investigate and monitor an out break of nosocomial infection.
2. Describe normal residential bacterial flora at various sites in the body and discuss their role in providing inherent defense against infectious agents.

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

3. Mechanism involved in autoimmunity
4. Methods used for testing efficacy of disinfectant
5. Adjuvants
6. Methods for testing antibiotic sensitivity
7. Biomedical waste segregation
8. Monitoring of OT sterility.

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Rajiv Gandhi University of Health Sciences

M.D. Degree Examination - May 2012

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. Discuss the role of anaerobic bacteria in wound infection . add a note on laboratory diagnosis of these infections
2. Classify Mycoplasma. Discuss morphology and importance of Mycoplasma as human pathogen. Add a note on laboratory diagnosis of infections caused by Mycoplasma

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

1. Non suppurative lesions produced by streptococcus pyogenus and their pathogenesis
2. Haemolytic uraemic syndrome
3. Nocardiosis
4. Bacterial vaginosis
5. Wool sorter's disease
6. Nonsporing anaerobes

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Rajiv Gandhi University of Health Sciences

M.D. Degree Examination – May 2012

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

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

1. Enumerate Arboviruses found in India. Discuss pathogenesis, laboratory diagnosis and preventive measure against Dengue virus infections
2. Discuss etiology, pathogenesis and laboratory diagnosis of candidasis.

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

3. Viral inclusion bodies
4. Replicative cycles in bacteriophages
5. Prions and prions associated diseases
6. Staining techniques used for fungi
7. Fungi causing corneal ulcers
8. Fungal infection encountered in AIDS cases in Indian population

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Rajiv Gandhi University of Health Sciences

M.D. Degree Examination – May 2012

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. Describe the life cycle, pathogenesis and laboratory diagnosis of Shchistosoma haematobium
2. Discuss the life cycle pathogenesis and laboratory diagnosis of Toxoplasma gondii and its role in Human Immunodeficiency positive patients.

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

3. Recent advances in malarial vaccines
4. Free living amoebae
5. Pathogensis, laboratory diagnosis of Trichomonal vaginitis
6. Laboratory diagnosis of Cryptosporidium parvum
7. Neurocysticercosis
8. Hydatid cyst

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Rajiv Gandhi University of Health Sciences

M.D. Degree Examination - Nov 2012

[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 laboratory methods and strategies for antimicrobial susceptibility testing. Add a note on automated antimicrobial test system and alternative tests for enhancing resistance detection
2. Define immune response. Describe the cell mediated immune response in detail and the laboratory methods of detection of cellular immune response

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

3. Monoclonal antibodies
4. Fluorescent microscope – principle and its applications
5. HLA typing methods
6. Gene transfer in bacteria
7. Mechanisms and classification of autoimmune diseases
8. Nosocomial infections

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Rajiv Gandhi University of Health Sciences

M.D. Degree Examination - Nov 2012

[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. Enumerate the causative agents of sexually transmitted infections. Discuss in detail the lab diagnosis of syphilis.
2. Classify vibrios? Discuss the epidemiology, lab diagnosis and prevention of cholera.

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

3. Multi drug resistant Tuberculosis
4. TRIC agents
5. Lab diagnosis of bacterial meningitis
6. Lymes disease.
7. Shigellosis
8. Haemophilus ducreyi

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Rajiv Gandhi University of Health Sciences

M.D. Degree Examination – Nov 2012

[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. What are retroviruses? Discuss the immunopathogenesis, laboratory diagnosis and prevention of HIV infection

2. Discuss briefly the opportunistic fungal infections and the laboratory diagnosis of candidiasis

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

3. Pulse polio programme
4. Hepatitis B virus carriers
5. Laboratory diagnosis of herpes simplex virus infection
6. Mycotoxins
7. Crytococcus neoformans
8. Fifth disease

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Rajiv Gandhi University of Health Sciences

M.D. Degree Examination – Nov 2012

[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. Classify the genus plasmodia. Discuss the life cycle, pathogenicity, and laboratory diagnosis of plasmodium falciparum infection. Add a note on malarial vaccines
2. Enumerate the nematodal infections prevalent in India. Explain in detail about the clinical manifestations and current methods of diagnosis of filarial infections

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

3. Hookworm and pseudo hookworm disease
4. Amoebic meningoencephalitis
5. Serologic and molecular test employed for diagnosis of parasitic infections
6. Lung fluke
7. Opportunistic protozoal infections
8. Larva migrans

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Rajiv Gandhi University of Health Sciences

M.D. Degree Examination - Nov 2012

[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 is Complement? Describe the Indirect complement pathway. Discuss the various complement deficient disorders
2. What is hypersensitivity? Discuss the various types of Hypersensitivity reaction. Discuss atopy in detail

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

3. Cold sterilization.
4. Electron microscopy
5. Bacterial spores
6. Mutations
7. Hybridoma technology and its applications
8. Bacterial adhesions

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Rajiv Gandhi University of Health Sciences

M.D. Degree Examination - Nov 2012

[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. List virulence factors of Shigella. Describe the pathogenesis of shigellosis. Add a note on recent approaches in the laboratory diagnosis of the condition.
2. Discuss the new approaches in the classification of Leptospira. Describe the pathogenesis and newer method in laboratory diagnosis of leptospirosis. Add a note on epidemiology of leptospirosis in India.

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

3. Non typhoidal salmonellosis
4. Virulence factors of yersisnia pestis
5. Vaccine against Haemophilus influenzae
6. Rapid and automated method in the diagnosis of tuberculosis.
7. Legionnaires disease
8. Vaccines against human anthrax.

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Rajiv Gandhi University of Health Sciences, Karnataka

Post Graduate Degree Examination – Nov 2012

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. Classify the Retroviruses. Describe the pathogenesis, laboratory diagnosis and Control of HIV infection. Add a note on HIV Vaccine.
2. Opportunistic fungal infections in Oncology

SHORT ESSAYS **6 x 10 = 60 Marks**

3. Prion diseases
4. Coxsackie virus
5. Superficial fungal infections
6. Viral interference
7. Candida dubliniensis
8. Rhinosporidiosis

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Rajiv Gandhi University of Health Sciences

M.D. Degree Examination – Nov 2012

[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 nematodes. Write in detail on the pathogenesis and laboratory diagnosis of filariasis

2. Enumerate parasitic infections where man is the intermediate host. Describe pathogenesis and laboratory diagnosis of Hydatid disease.

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

3. Primary amoebic meningoencephalitis
4. Chemoprophylaxis of malaria.
5. Fish tapeworm
6. Special stains used in diagnosis of parasitic infections
7. Ocular manifestations of parasitic diseases.
8. Isospora belli

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