(17)

9341_2009_1_S44

Rajiv Gandhi University of Health Sciences

Diploma Degree Examination - May 2010

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

MICROBIOLOGY

PAPER I

(Revised Scheme)

Q.P. CODE: 9341

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. Give an account of bacterial cell wall. Add a note on antibiotics which act on cell wall
2. Write an essay on clinical applications of antigen-antibody reactions

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

3. Gram stain
4. Robert koch
5. Sterilization by moist heat
6. Adjuvants
7. Serum sickness
8. Distinguishing features of active and passive immunity

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9342_2009_1_S43

Rajiv Gandhi University of Health Sciences

Diploma Degree Examination - May 2010

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

MICROBIOLOGY

PAPER II

(Revised Scheme)

Q.P. CODE: 9342

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 in detail about Brucellosis
2. Enumerate the agents causing subcutaneous mycosis. Discuss in detail about the laboratory diagnosis of mycetoma

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

3. Atypical mycobacteria
4. Gardenerella vaginalis
5. Well-Felix reaction
6. Bird-flu
7. Hepatitis C virus
8. Pulse polio vaccination

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7351_2009_1_S42

Rajiv Gandhi University of Health Sciences

M.D. Degree Examination - May 2010

[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 various virulence factors in the pathogenesis of microbial infections
2. Discuss the mechanism of production of antibody and mention the applications of monoclonal antibodies

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

3. Polymerase chain reaction
4. Dark filed microscope
5. Tumor antigens
6. Idiotypes
7. Gram negative cell wall
8. Guinea pig as laboratory animal

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(20)

7352_2009_1_S43.doc

Rajiv Gandhi University of Health Sciences

M.D. Degree Examination - May 2010

[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. Discuss the pathogenesis, epidemiology and laboratory diagnosis of leptospirosis
2. Discuss the role of nonfermenting gram negative bacilli in various clinical condition and the methods of identification

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

3. Methicillin resistant staphylococcus aureus
4. Verotoxigenic Escherichia coli
5. Urea plasma urealyticum
6. Antigenic variation in salmonella
7. Chlamydial inclusions
8. Bacteriological examination of water

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Rajiv Gandhi University of Health Sciences

M.D. Degree Examination – May 2010

[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

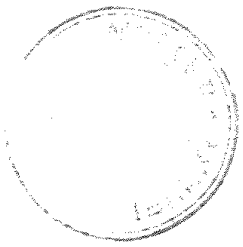
LONG ESSAY **2 X 20 = 40 Marks**

1. What are the enteroviruses of human origin? Discuss the antigenic properties of polio virus, epidemiology laboratory diagnosis and immuno prophylaxis of poliovirus infection

2. What are dimorphic fungi? Discuss briefly on pathogenesis, laboratory diagnosis and epidemiology of histoplasma capsulatum

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

3. Hepatitis G virus
4. Rabies vaccines
5. Oncogenic viruses
6. Aspergillosis
7. Polymerase chain reaction
8. chlamydospores



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7354_2009_1_S43

Rajiv Gandhi University of Health Sciences

M.D. Degree Examination – May 2010

[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

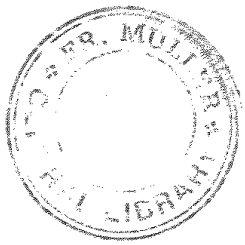
LONG ESSAY **2 X 20 = 40 Marks**

1. Enumerate the coccidian parasites. Discuss the pathogenecity and laboratory diagnosis of Toxoplasma Gondii

2. Discuss the pathogenesis, laboratory diagnosis of human filariasis and the control measures

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

3. Immunity in malaria
4. Larva migrans
5. Cultivation of Entamoeba histolytica
6. Lung fluke
7. Larvae found in stool
8. Cutaneous leishmaniasis



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7355_2009_1_S135

Rajiv Gandhi University of Health Sciences

M.D. Degree Examination - May 2010

[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. Describe the mechanism of antibiotic resistance and the measures to be taken to minimize the emergence of drug resistance in infections

2. Discuss the immunology of organ transplantation

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

3. Methods of isolating pure cultures of bacteria
4. Bacteria with defective cell wall
5. Sterilizing filters
6. Role of plasma cells in immune response
7. Complement cascade
8. Monoclonal antibodies

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7356_2009_1_S136.doc

Rajiv Gandhi University of Health Sciences

M.D. Degree Examination - May 2010

[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. Classify spirochaetes. Discuss the laboratory diagnosis of syphilis
2. Enumerate the causes of bacterial meningitis in an adult patient. Discuss the laboratory diagnosis of pneumococcal meningitis

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

3. *Staphylococcus saprophyticus*
4. Infections due to corynebacteria other than *C. diphtheriae*
5. Pathogenesis of cholera
6. *Mycobacterium avium – intracellulare*
7. Inclusion conjunctivitis
8. Laboratory diagnosis of epidemic typhus

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Rajiv Gandhi University of Health Sciences

M.D. Degree Examination – May 2010

[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. Enumerate the enteroviruses of human origin. Describe the pahogenesis, laboratory diagnosis and preventive measures of poliomyelitis

2. Give and account of the opportunities fungal infections

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

3. Interferons
4. Congenital viral infections
5. Hepatitis C virus
6. Chromoblastomycosis
7. Malassezia furfur
8. Antifungal drugs

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7358_2009_I_S133

Rajiv Gandhi University of Health Sciences

M.D. Degree Examination – May 2010

[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. Write an essay on the recent advances in the development of malaria vaccine

2. Describe the new approaches in diagnosis of kalaazar

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

3. Primary amaebic meningo encephalitis
4. Cyclospora
5. Schistosoma haematobium
6. Visceral larva migrans
7. Tissue nematodes
8. Parasitic infection of the CNS

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