Rajiv Gandhi University of Health Sciences, Karnataka

Post Graduate Degree Examination – JUNE 2016

Time: Three Hours **Max. Marks: 100 Marks**

MD MICROBIOLOGY

GENERAL MICROBIOLOGY AND IMMUNOLOGY

PAPER- I

(Revised Scheme)

Q. P. CODE: 7355

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 epidemiological background of hand hygiene in a tertiary care hospital and evaluation of the most important agents for scrubs and rubs.

2. Describe the antigen antibody reactions. Discuss in detail ELISA test.

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

3. Hybridoma technology

4. Flowcytometry

5. Phenotypic and genotypic methods of Drug resistance

6. Bacterial toxin

7. Filamentous appendages of bacteria

8. Cells of Immune system

Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination - JUNE 2016

[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. Describe the pathogenesis and laboratory diagnosis and the role of Helicobacter pylori in chronic active gastritis?
2. Classify Rickettsial infections. Discuss the pathogenesis and laboratory diagnosis of Typhus fever

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

3. Pneumonic plague
4. Laboratory diagnosis of syphilis
5. Borrelia burgdorferi
6. Lepromin test
7. Drug resistenus testing of Mycobacterium tuberculosis
8. Toxins of clostridium tetani

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Rajiv Gandhi University of Health Sciences, Karnataka

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 aetiology, pathogenesis and laboratory diagnosis of dermatomycosis
2. Discuss the various cell cultures and its use in diagnosis of viral infections

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

3. Viral haemorrhagic fever
4. Candidiasis
5. Mycetoma
6. Epstein Barr virus
7. Classification of fungi
8. Live attenuated viral vaccine

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Rajiv Gandhi University of Health Sciences, Karnataka

PARASITOLOGY
PAPER- IV
(Revised Scheme)
Q. P. CODE: 7358

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 parasites associated with ocular infections
2. Discuss pathogenesis and laboratory diagnosis of diarrhea caused by protozoa.

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

3. Cryptosporidium parvum
4. Occult filariasis
5. Laboratory diagnosis for parasites found in blood
6. Enterobius vermicularis
7. Malaria vaccine
8. Faeces culture for nematode larvae

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Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination - NOV 2016

[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

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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
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

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Rajiv Gandhi University of Health Sciences, Karnataka

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 haematoblium.

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

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

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