

[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

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

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