

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

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Rajiv Gandhi University of Health Sciences 52  
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 resistance testing of *Mycobacterium tuberculosis*
8. Toxins of *Clostridium tetani*

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# Rajiv Gandhi University of Health Sciences, Karnataka

Post Graduate Degree Examination – JULY 2016

53

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 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

Post Graduate Degree Examination – JULY 2016

5A

Time: Three Hours

Max. Marks: 100 Marks

**MD MICROBIOLOGY**  
**SYSTEMATIC BACTERIOLOGY**  
**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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