

Time: 3 hrs

Max Marks: 100

Long Essays

2 X 10 = 20

1. Classify Mycobacteria? Discuss the Laboratory diagnosis of pulmonary tuberculosis? Add a note on concentration methods 3+5+2 = 10
2. Mention the parasites causing anemia? Describe the life cycle and laboratory diagnosis of plasmodium falciparum? 2+5+3 = 10

Short Essays

10 X 5 = 50

3. Flagella
4. Extra intestinal manifestations of amoebiasis
5. Immunoglobulin
6. Biological functions of complement
7. Type III Hypersensitivity reaction
8. Staphylococcal food poisoning
9. Cryptococcus neoformans
10. Serological markers of Hepatitis B Virus
11. Laboratory diagnosis of HIV infection
12. Hydatid cyst

Short Answers

10 X 3 = 30

13. ASLO ✓
14. Plasmid
15. Enrichment Media
16. Xeno diagnosis ✓
17. C Reactive Protein ✓
18. Germ tube ✓
19. Non-Neural vaccines for rabies
20. Isospora Belli ✓
21. Donovan bodies
22. Name three sexually transmitted viral diseases

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - July 2008

10

Time: 3 Hrs.

[Max. Marks: 100]

MICROBIOLOGY - PAPER II (Revised Scheme)

QP Code: 1059

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 9 = 18 Marks

1. Classify myxoviruses. Write about the morphology, antigenic structure, laboratory diagnosis and prophylaxis of influenza virus
2. Classify Platyhelminths. Describe the morphological features, life cycle, pathogenesis and laboratory diagnosis of Taenia Solium

SHORT ESSAY

10 X 5 = 50 Marks

3. Mucocutaneous Leishmaniasis
4. Life cycle and pathogenesis of Ascaris lumbricoides
5. Fasciola hepatica
6. Laboratory diagnosis of human immunodeficiency virus
7. Immunology of viral infections
8. Type C Hepatitis virus
9. Laboratory diagnosis of fungal infection
10. Concentration techniques
11. Rhinosporidiosis
12. Pathogenesis and laboratory diagnosis of Adeno virus

SHORT ANSWERS

16 X 2 = 32 Marks

13. Ectothrix and endothrix
14. Name two methods used for measurement of air contamination
15. Name four fungi causing opportunistic infections
16. Extrinsic incubation period
17. Sabouraud's dextrose agar
18. Draw and label aspergillus flavus
19. Name four asexual spores of fungi
20. Cercariae
21. Name four viruses causing oncogenesis
22. Hetrazan provocation test
23. Tsetse fly
24. Name four cestodes infecting man
25. Name four viruses causing conjunctivitis
26. Name four viruses belong to paramyxoviruses
27. Four parasitic infections causing anaemia
28. Larva currens

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - July 2008



Time: 3 Hrs.

[Max. Marks: 100]

MICROBIOLOGY - PAPER I (Revised Scheme)

QP Code: 1058

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 9 = 18 Marks

1. Classify hypersensitivity reactions. Describe in detail about type I hypersensitivity reactions
2. Name the bacteria causing sexually transmitted diseases. Discuss the laboratory diagnosis of syphilis

SHORT ESSAY

10 X 5 = 50 Marks

3. Immunoglobulin G
4. Active immunity
5. Bacterial spores
6. Differential media
7. Transduction
8. Universal safety precautions
9. Laboratory diagnosis of Gonorrhoeae
10. Method of Anaerobiosis
11. Shigella sonnei
12. Blood culture

SHORT ANSWERS

16 X 2 = 32 Marks

13. Four characters of Eltor Vibrios
14. Mention four biological activities of endotoxins
15. Mention any two important roles played by normal flora of the body
16. Morphology of Yersinia pestis
17. Cultural characteristics of Corynebacterium diphtheriae
18. Principle of the Ziehl Neelsen Stain
19. Classification of Streptococci
20. Morphology of Leptospira interrogans
21. Diseases caused by Salmonella
22. Name four pathogens of the family rickettsiaceae
23. Methods of demonstration of a capsule
24. Enumerate four bacteria causing meningitis
25. Modes of transmission of hospital acquired infections
26. Mention the various methods of gene transfer between bacteria
27. Disease caused by staphylococcus aureus
28. What are the methods available for treatment of hospital waste?



Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - July 2008

Time: 3 Hrs.

[Max. Marks: 90]

MICROBIOLOGY (Old Scheme)

QP Code: 1007

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Define and classify immunoglobulins. Describe the characters of Ig G
2. Enumerate the viruses causing Encephalitis in India. Discuss the laboratory diagnosis and epidemiology of Japanese B encephalitis

SHORT ESSAY

10 X 5 = 50 Marks

3. Discuss the opportunistic infections of H.I.V viruses
4. Name live and killed vaccines and their uses
5. Mycoplasma
6. Anaphylaxis
7. Lab diagnosis of bacterial food poisoning
8. Agglutination
9. Lab diagnosis of Dermatophytes
10. Lab diagnosis of Toxoplasmosis
11. Sterilization by moist heat
12. Clinical features and lab diagnosis of Tetanus

SHORT ANSWERS

10 X 2 = 20 Marks

13. Name TORCH agents
14. Name four protozoal parasites pathogenic to man
15. Quellung's phenomena
16. Enumerate the different acid fast bacilli
17. Draw the diagram of Satellitism in H influenza
18. Name two important contributions of Robert Koch
19. Name four systemic Mycotic infections
20. Name four selective media
21. Name two types of bacterial filters
22. Uses of hot air oven

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - January 2008

13

Time: 3 Hrs.

[Max. Marks: 100]

MICROBIOLOGY - PAPER II (Revised Scheme)

QP Code: 1059

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 9 = 18 Marks

1. Classify cestodes. Describe the life cycle, pathogenesis and laboratory diagnosis of Echinococcus Granulosus
2. Enumerate the viruses causing hepatitis? Describe the morphology, laboratory diagnosis and prevention of hepatitis B

SHORT ESSAY

10 X 5 = 50 Marks

3. V-Z virus
4. Epstein-Bar virus
5. Embryonated egg
6. Slow viral diseases
7. Dermatophytes
8. Chlamyospore
9. Rhinosporidiosis
10. Laboratory diagnosis of Amoebiasis
11. Enterobius vermicularis
12. Trichomonas vaginalis

SHORT ANSWERS

16 X 2 = 32 Marks

13. Name different cell lines used for cultivation of viruses
14. Herpes simplex type 2
15. Name four viruses transmitted by Arthropodes
16. Viruses causing diarrhoea
17. Fungi infecting eye
18. Amplifier host
19. Wood's lamp
20. Name the viruses causing skin lesions
21. Penicillium - Diagram
22. Egg of taenia - Diagram
23. Name the different species of Trypanosomes
24. Liver fluke
25. Viruses causing conjunctivitis
26. Pathogenecity of hook worm
27. Ectothrix and endothrix
28. Diagram of Gametocyte of P. Falciparum

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MICROBIOLOGY - PAPER I (Revised Scheme)**QP Code: 1058**

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY**2 X 9 = 18 Marks**

1. What is genetic variation? Describe the various methods of gene transfer and its role in drug resistance in bacteria
2. Classify Mycobacteria. Describe the morphology, cultural characteristics, pathogenesis and laboratory diagnosis of Mycobacterium tuberculosis

SHORT ESSAY**10 X 5 = 50 Marks**

3. Bacterial capsule
4. Chemical disinfectants
5. Anaerobic culture methods
6. Mechanisms of innate immunity
7. Type III hypersensitive reaction
8. Radio immuno assays
9. Helicobacter pylori
10. Laboratory diagnosis of Shigella
11. Prophylaxis of tetanus
12. Chlamydia trachomatis

SHORT ANSWERS**16 X 2 = 32 Marks**

13. Name four selective media
14. Oxidase test
15. Applications of electron microscope
16. Draw and label section of lymph node
17. Mention four properties of IgG
18. Disorders of phagocytosis
19. Name four tests for identification of Streptococcus pneumoniae
20. Satellitism
21. Four human diseases caused by Rickettsia
22. Name four bacteria causing Gas Gangrene
23. Lyme's disease
24. Draw and label bacterial spore
25. Uses of non ionizing radiations
26. Applications of Human Leucocyte Antigen typing
27. Coryne bacterium ulcerans
28. Non Pathogenic treponemes

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - January 2008

15

Time: 3 Hrs.

[Max. Marks: 90]

MICROBIOLOGY (Old Scheme)

QP Code: 1007

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Enumerate the viruses affecting Liver. Discuss the pathogenesis and laboratory diagnosis of Hepatitis - B
2. Define and classify Immunity. Describe acquired immunity

SHORT ESSAY

10 X 5 = 50 Marks

3. H.I.V virus - morphology
4. Plasmodium falciparum
5. Louis Pasteur
6. Dermatophytes
7. Elisa test
8. Plasmid
9. H.L.A Antigen
10. Antigenic shift and antigenic drift
11. Dengue virus - Clinical features and Lab diagnosis
12. Sheathed Microfilaria

SHORT ANSWERS

10 X 2 = 20 Marks

13. Cryptococcosis - lab diagnosis
14. Four parasites causing anaemia
15. Mantoux test
16. Ig M
17. Quellung phenomenon
18. MMR vaccines name three components
19. Mention pathogenic species of Aspergillosis
20. Draw the diagram in Satellitism in H influenza
21. Sabroud's dextrose agar composition
22. Mention the diseases caused by candida albicans

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15 A

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Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE - II Degree Examination - January 2008

Time: 3 Hrs.

[Max. Marks: 100]

MICROBIOLOGY - PAPER II (Revised Scheme II)

QP Code: 1084

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Classify Herpes viruses. Describe pathogenesis and lab diagnosis of diseases caused by Herpes simplex virus
2. Define PUO and describe the lab diagnosis of pyrexia of unknown origin in detail

SHORT ESSAY

10 X 5 = 50 Marks

3. Rapid diagnostic techniques of Malaria
4. Varicella zoster
5. Lab diagnosis of polio
6. Presumptive coliform test
7. Japanese encephalitis
8. HCV
9. Dermatophytes
10. Opportunistic fungal infection in HIV patients
11. Dog tape worm
12. Trichinella spiralis

SHORT ANSWERS

10 X 3 = 30 Marks

13. Cytopathic effects (CPE)
14. Human Papilloma virus
15. Polio vaccines
16. Significant bacteruria
17. Tuberculosis meningitis
18. Lab diagnosis of HIV in new born
19. Cryptosporidium
20. General characters of Trematodes
21. Universal barrier precautions
22. Food poisoning

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Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE - II Degree Examination - January 2008

Time: 3 Hrs.

[Max. Marks: 100]

MICROBIOLOGY - PAPER I (Revised Scheme II)

QP Code: 1083

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Classify Hypersensitivity reactions. Describe Type I hypersensitivity reaction
2. Classify Mycobacteria. Describe the pathogenesis and laboratory diagnosis of pulmonary tuberculosis

SHORT ESSAY

10 X 5 = 50 Marks

3. Transduction
4. Louis Pasteur
5. Autoclave
6. Heterophile agglutination tests
7. Cytokines
8. Toxins and enzymes produced by Staphylococcus aureus
9. Malignant pustule
10. Diarrhogenic Escherichia coli
11. Gram stain
12. Laboratory diagnosis of gonorrhoea

SHORT ANSWERS

10 X 3 = 30 Marks

13. Immunoglobulin G
14. ASO test
15. Transport media
16. Bacterial spore
17. Prophylaxis against Diphtheria
18. Bacterial filters
19. Cellwall of gram positive bacteria
20. Lepromin test
21. Lyme disease
22. Halophilic vibrio

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Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - December 2009

16

Time: 3 Hrs.

[Max. Marks: 100]

MICROBIOLOGY - PAPER II (Revised Scheme II)

QP Code: 1084

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Describe the morphology, pathogenesis and laboratory diagnosis of Rabies
2. Enumerate nematodes. Describe the life cycle and laboratory diagnosis of Ankylostoma duodenale

SHORT ESSAY

10 X 5 = 50 Marks

3. Kysanur Forest disease
4. Prophylaxis against poliomyelitis
5. Interferons
6. Rhinosporidiosis
7. Life cycle of Ascaris lumbricoides
8. Infections caused by Herpes simplex virus
9. Extra intestinal amoebiasis
10. Viruses causing diarrhoea
11. Larva migrans
12. Concentration methods used for stool specimens

SHORT ANSWERS

10 X 3 = 30 Marks

13. Cell culture
14. Germ tube technique
15. Name three agents causing systemic mycosis
16. Pathogenesis of plasmodium falciparum
17. MMR vaccine
18. Name three coccidial parasites
19. NIH swab
20. Name three parasites found in the urine
21. Antigenic drift and antigenic shift
22. Molluscum contagiosum

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - December 2009

17

Time: 3 Hrs.

[Max. Marks: 100]

MICROBIOLOGY - PAPER II (Revised Scheme)

QP Code: 1059

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 9 = 18 Marks

1. Enumerate the Arbo viral infections prevalent in India. Describe the pathogenesis complications and laboratory diagnosis of dengue
2. Enumerate pathogenic and non pathogenic amoebae. Describe the pathogenesis and laboratory diagnosis of intestinal amoebiasis

SHORT ESSAY

10 X 5 = 50 Marks

3. Interferons
4. Molluscum contagiosum
5. Mumps
6. Anti rabies vaccines
7. 'Tinea' infections
8. Mucor mycosis
9. Candida Albicans
10. Complications of falciparum malaria
11. Cysticercus cellulosae
12. Loeffler's syndrome

SHORT ANSWERS

16 X 2 = 32 Marks

13. Name the parasites which cause anaemia and the type of anaemia
14. Brood capsule
15. Hyper infection syndrome
16. Clinical signs of Chaga's disease
17. Concentration techniques for stool
18. Steps in viral replication
19. Complications of measles .
20. Four viruses which cause diarrhea
21. Suckling mice
22. Examples of intra nuclear and intra cytoplasmic inclusion bodies (Two each)
23. Four micro organisms which cause aseptic meningitis
24. Four examples of filamentous fungi
25. Classification of fungal diseases with one example each
26. Hair perforation test
27. 2 examples Zoophilic, Geophilic and Anthropophilic dermatophytes
28. Oculomycosis

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - December 2009

18

Time: 3 Hrs.

[Max. Marks: 100]

MICROBIOLOGY - PAPER I (Revised Scheme II)

QP Code: 1083

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Discuss the pathogenesis, lab diagnosis and prevention of Typhoid
2. Draw and describe bacterial cell in detail

SHORT ESSAY

10 X 5 = 50 Marks

1. Anaerobic culture methods
4. Virulence factors in bacteria
5. Structure and function of IgA
6. Major histocompatibility complex and its applications
7. Plasmids
8. Polymerase chain reaction (PCR)
9. Q fever
10. Atypical mycobacteria
11. Precipitation in gel reactions with examples
2. TRIC agents

SHORT ANSWERS

10 X 3 = 30 Marks

13. Adjuvants
14. Chancroid
15. MRSA detection methods
16. Lancefield's grouping of Streptococci
17. Bacillary dysentery
18. Draw and label microscopic picture of gram stain Eschar tissue
19. Differences between Pneumococci and streptococcus viridians
20. CD4 cell
21. Artificial passive immunity
22. Helicobacter pylori

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Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - December 2009

19

Time: 3 Hrs.

[Max. Marks: 100]

MICROBIOLOGY - PAPER I (Revised Scheme)

QP Code: 1058

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 9 = 18 Marks

1. Enumerate the organisms causing meningitis. Give an account of laboratory diagnosis of bacterial meningitis
2. Classify sterilization. Explain in details the construction and working of Hot air oven. Add a comment on merits and demerits of hot air oven and mention sterilization controls used for it

SHORT ESSAY

10 X 5 = 50 Marks

3. Define mutation. What are the types of mutation? Add a note on significance of mutation
4. Write a note on Louis Pasteur
5. Enumerate methods of anaerobiosis. Explain any one of them
6. Write briefly on coagulase test
7. Write briefly on precipitation reaction
8. Write a note on Enterococcus
9. Give an account of laboratory diagnosis of leptospirosis
10. Classification of streptococci
11. Polymerase chain reaction
12. Bacillus Calmette Guérine Vaccine

SHORT ANSWERS

16 X 2 = 32 Marks

3. Mention important sites affected by Actinomycetes
14. Importance of (V.D.R.L) Venereal Disease Research Laboratory Test
15. Classification of Vibrio
16. Enumerate four important bacteria causing hospital infections
17. Enumerate four important bacteria causing Urinary tract infections
18. Draw a labeled diagram of bacterial flagellum
19. Define exotoxins
20. Mention four characteristics of antigen antibody reactions
21. Mention the non-suppurative lesions caused by Streptococci
22. Catalase test
23. Rabbit - mention important uses
24. Four important properties of agar useful as an ingredient of culture media
25. Ascoli's thermo precipitation test
26. Define pleomorphism with suitable example
27. Define spheroplast
28. Grading of smears in the laboratory diagnosis of pulmonary tuberculosis

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Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - December 2009

20

Time: 3 Hrs.

[Max. Marks: 90]

MICROBIOLOGY (Old Scheme)

QP Code: 1007

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Describe the morphology, life cycle and laboratory diagnosis of Echinococcus Granulosus
2. Describe the laboratory diagnosis and management of syphilis

SHORT ESSAY

10 X 5 = 50 Marks

3. Gas Gangrene
4. Hepatitis E
5. Pour Plate Method
6. Hot air oven
7. Varicella Zoster
8. Prevention of Typhoid
9. Ethylene oxide sterilization
10. Candidiasis
11. Primary Immunodeficiency disorders
12. Function of Macrophages

SHORT ANSWERS

10 X 2 = 20 Marks

3. Define Transcription
14. List infections produced by respiratory syncytial virus
15. List two organisms causing a typical pneumonia
16. List specimens used for diagnosis of Pneomocystis carini pneumonia
17. Classify bacteria based on oxygen requirements
18. List two infections transmitted through milk
19. Name four parasitic infections caused by mosquito
20. Name three parasites found in the large intestine
21. Name two insect vectors and the diseases they transmit
22. List two Disinfectants

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Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - June/July 2009

21

Time: 3 Hrs.

[Max. Marks: 100]

MICROBIOLOGY - PAPER II (Revised Scheme II)

QP Code: 1084

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Describe the morphology, pathogenesis, lab diagnosis and prevention of Rabies
2. Describe the life cycle, pathogenesis and lab diagnosis of Wucheraria bancrofti

SHORT ESSAY

10 X 5 = 50 Marks

1. Inclusion bodies
4. Tissue culture
5. Coxsackie viruses
6. Chikungunya virus
7. Normal flora
8. Stool concentration techniques
9. Taenia solium
10. Pneumocystis jirovecii
11. Mycetoma
12. Infective endocarditis

SHORT ANSWERS

10 X 3 = 30 Marks

13. Dimorphic fungi
14. Prions
15. MMR vaccine
16. Paul Bunnell test
17. Nichol's strain
18. Cryptococcus neoformans
19. Influenza virus - H5 NI
20. Parent to child transmission of HIV
21. Salmonella typhimurium
22. Satellitism

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Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - June/July 2009

22

Time: 3 Hrs.

[Max. Marks: 100]

MICROBIOLOGY - PAPER II (Revised Scheme)

QP Code: 1059

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 9 = 18 Marks

1. Enumerate the viruses causing Hepatitis. Write about the pathogenesis, laboratory diagnosis and prophylaxis of hepatitis B virus
2. Name the tissue Nematodes. Describe the life cycle pathogenesis and laboratory diagnosis of *Dracunculus Medinensis*

SHORT ESSAY

10 X 5 = 50 Marks

3. Aseptic Meningitis
4. Severe acute respiratory syndrome (SARS)
5. Viral multiplication
6. Laboratory diagnosis of *histoplasma capsulatum*
7. Chromoblastomycosis
8. Laboratory diagnosis of extra intestinal Amoebiasis
9. Viral diarrhoeas
10. Laboratory diagnosis of *Echino coccus Granulosus*
11. *Trichinella spiralis*
12. Cyclops

SHORT ANSWERS

16 X 2 = 32 Marks

3. Name four DNA viruses
14. Paul - Bunnel test
15. Pulse polio vaccination
16. Name four para myxoviruses
17. Opportunistic parasitic infections in HIV
18. Germ tube test
19. Cysts of *E. Histolytica*
20. Name four clinical conditions of *Aspergillus* infection
21. Continuous cell lines
22. Draw and label *Rhizopus*
23. Name four parasitic infection in which man is the dead end of the life cycle
24. Non bile stained egg - Diagram
25. Draw and label influenza virus
26. Name four viral inclusion bodies
27. Soft tick
28. Uses of Bacterio phages

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Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - June/July 2009

23

Time: 3 Hrs.

[Max. Marks: 100]

MICROBIOLOGY - PAPER I (Revised Scheme II)

QP Code: 1083

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Discuss the pathogenesis, lab diagnosis and prevention of Cholera
2. Describe the mechanism of cell mediated immunity (CMI) and the role of cytokines and MHC

SHORT ESSAY

10 X 5 = 50 Marks

3. Genetic engineering and its application in medicine
4. Gram negative cell wall
5. Culture media with examples
6. Louis Pasteur
7. Production of monoclonal antibodies and their applications
8. Immunofluorescence
9. Lab diagnosis of hide porter's disease
10. Standard test for syphilis
11. Neisseria Gonorrhoea
12. Typhoid vaccines

SHORT ANSWERS

10 X 3 = 30 Marks

13. BCG vaccine
14. Diagnosis of Pseudomembranous enterocolitis
15. Natural killer cell (NK cell)
16. Counter immuno electrophoresis
17. Sterilization controls
18. Prozone phenomenon
19. Clinical importance of Pseudomonas aeruginosa
20. Restriction endonucleases
21. Clostridium tetani
22. Relapsing fever

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Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - June/July 2009

24

Time: 3 Hrs.

[Max. Marks: 100]

MICROBIOLOGY - PAPER I (Revised Scheme)

QP Code: 1058

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 9 = 18 Marks

1. Enumerate the Bacteria causing infective endocarditis. Discuss the laboratory diagnosis of subacute bacterial endocarditis
2. Discuss the mechanisms of innate immunity

SHORT ESSAY

10 X 5 = 50 Marks

3. Haptens
4. Immunoglobulin M (IgM)
5. Bacterial growth curve
6. Bacterial cell wall
7. Disinfectants used in the hospital
8. Mutational drug resistance
9. Chancroid
10. Blood culture
11. Weil-Felix reaction
12. Laboratory diagnosis of Tetanus

SHORT ANSWERS

16 X 2 = 32 Marks

13. Alpha toxin
14. Bacteriophage typing
15. Name four organisms causing food poisoning
16. Methods of demonstrating capsule in bacteria
17. Exotoxin
18. Christy Atkins Munch Peterson reaction
19. Name four methods of typing of Bacteria
20. Enumerate four anaerobic gram negative bacilli
21. Name four common organisms causing urinary tract infections
22. What is Koch's phenomenon?
23. Photochromogens
24. Enumerate the treponemal tests used in the diagnosis of syphilis
25. Four characteristics of Chlamydiae
26. Morphology of Rickettsiae
27. Difference between Mycoplasma and L forms
28. Name four media used for plating Vibrio Cholerae

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination – June/July 2009

25

Time: 3 Hrs.

[Max. Marks: 90]

MICROBIOLOGY (Old Scheme)

QP Code: 1007

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Describe the bacterial growth curve. Discuss growth requirements of bacteria and methods of enumeration
2. Discuss methods for grouping of streptococci. Describe the clinical findings and laboratory diagnosis of Group A Streptococci

SHORT ESSAY

10 X 5 = 50 Marks

3. Extra-intestinal amoebiasis
4. Dermatophytes
5. Prophylaxis for rabies
6. Chemical sterilization
7. Western blot
8. Enterobiasis
9. Diarrhoeagenic Escherichia coli
10. Widal test
11. Structure of immunoglobulins
12. Type IV hypersensitivity reactions

SHORT ANSWERS

10 X 2 = 20 Marks

13. List two differential stains and organisms for which they are used
14. State two functions of bacterial cell membrane
15. List four Zoonotic infections
16. List four enriched media
17. Name two parasitic infections in which the larval stage is found in the lungs
18. Draw primary and secondary antibody response to infection
19. Name four prophylactic viral vaccines used in infancy
20. Draw two flagellar arrangements in bacteria
21. List four opportunistic fungal infections
22. List four opportunistic parasitic infections

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - January 2009

26

Time: 3 Hrs.

[Max. Marks: 100]

MICROBIOLOGY - PAPER II (Revised Scheme)

QP Code: 1059

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 9 = 18 Marks

1. Classify Nematodes. Describe the life cycle and laboratory diagnosis of Wuchereria Bancrofti
2. Classify Entero viruses. Describe the structure, pathogenecity, laboratory diagnosis of polio viruses. Add a note on prophylaxis against poliomyelitis

SHORT ESSAY

10 X 5 = 50 Marks

3. Laboratory diagnosis of Kala-Azar
4. Yellow fever
5. Viral interferon
6. Infective hepatitis
7. Laboratory diagnosis of HIV/AIDS
8. Cyto-pathogenic Effect
9. Infectious mononucleosis
10. Fungi infecting hair, nails, skin
11. Mucor mycosis
12. Dengue fever

SHORT ANSWERS

16 X 2 = 32 Marks

13. Name four DNA viruses
14. Antiviral agents
15. Oncogenic RNA viruses
16. Parasitic infections in HIV/AIDS
17. Egg of Trichuris Trichura - Diagram
18. Parasitic diseases transmitted through Pig
19. Name the Helminthic infections transmitted through snail
20. Aldehyde test
21. Gametocyte of P. Falciparum
22. Anti fungal drugs
23. Definitive host
24. Mycotoxins
25. Viral haemagglutination
26. Antigenic shift and Antigenic drift
27. Cultivation of fungi
28. Cowdry type B inclusion bodies

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - January 2009

27

Time: 3 Hrs.

[Max. Marks: 100]

MICROBIOLOGY - PAPER I (Revised Scheme)

QP Code: 1058

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 9 = 18 Marks

1. Enumerate the organisms causing sore throat. Write on morphology and pathogenicity of *Corynebacterium diphtheriae* and laboratory diagnosis of diphtheria
2. Give an account of various mechanisms of transfer of genetic information between bacteria

SHORT ESSAY

10 X 5 = 50 Marks

3. Bacterial conjugation
4. Autoclave
5. Robert Koch
6. Quellung reaction
7. Agglutination reaction
8. Concentration of sputum in laboratory diagnosis of pulmonary tuberculosis
9. Laboratory diagnosis of typhoid fever
10. Differences between *Streptococci* and *Pneumococci*
11. Monoclonal antibody
12. Prophylaxis of Tetanus

SHORT ANSWERS

16 X 2 = 32 Marks

13. Mention four important Bacteria causing meningitis
14. Demonstration of *T.pallidum*
15. Enumerate methods to demonstrate motility
16. Enteraggative *E. coli*
17. Enumerate four important bacteria causing diarrhoea
18. Draw a labeled diagram of bacterial spore
19. Define endotoxins
20. Mention two complement deficiency diseases
21. Draw a labeled diagram of *Pneumococci* in negative stain
22. Oxidase test – two organisms giving a positive result
23. Mouse – uses in microbiology
24. Define prozone
25. Phage typing – what is its significance?
26. Lag phase in bacterial growth curve
27. Importance of bacterial cell wall
28. Name four Transport media

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - January 2009

28

Time: 3 Hrs.

[Max. Marks: 90]

MICROBIOLOGY (Old Scheme)

QP Code: 1007

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Write an essay on active and passive immunity
2. Describe the etiology, pathogenesis and laboratory diagnosis of cholera

SHORT ESSAY

10 X 5 = 50 Marks

3. Atypical mycobacteria
4. Methods of Anaerobic culture
5. Rhinosporidiosis
6. Microfilaria
7. Dermatophytes
8. VDRL Test
9. Exotoxins
10. Laboratory diagnosis of Gonorrhoea
11. Japanese encephalitis
12. Anaphylaxis

SHORT ANSWERS

10 X 2 = 20 Marks

13. X & V Factors
14. Seitz filter
15. Name tric agents
16. Mention parasites found in peripheral blood
17. Secretory IgA
18. Sabouraud's Dextrose Agar
19. Mention four selective media
20. Rota viruses
21. Occult filariasis
22. Heterophile antigens

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - December 2010

29

Time: 3 Hrs.

[Max. Marks: 100]

MICROBIOLOGY - PAPER II (Revised Scheme II)

QP Code: 1084

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Classify Myxoviruses. Describe the morphology, antigenic structure and laboratory diagnosis of influenza virus.
2. Describe the morphology, life cycle and laboratory diagnosis of *Toxoplasma gondii*.

SHORT ESSAY

10 X 5 = 50 Marks

3. Life cycle of Round worm
4. *Histoplasma capsulatum*.
5. *Cryptosporidium parvum*
6. Bio-safety in Microbiology laboratory.
7. Dengue virus.
8. Structure of Bacteriophage
9. Antigenic drift and antigenic shift
10. Concentration method of stool examination
11. Rabies vaccines
12. Interferons.

SHORT ANSWERS

10 X 3 = 30 Marks

13. Prions
14. Rubella Syndrome
15. Mycotoxins
16. Negri bodies
17. *Molluscum contagiosum*
18. *Larva migrans*
19. Complications of Amoebiasis.
20. Inclusion bodies
21. *Giardia lamblia*.
22. Slide culture method.

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Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - June\July 2010

30

Time: 3 Hrs.

[Max. Marks: 100]

MICROBIOLOGY - PAPER II (Revised Scheme)

QP Code: 1059

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 9 = 18 Marks

1. Mention all the tape worms. Describe the life cycle, laboratory diagnosis and complications of *Taenia solium*
2. Describe the structure of rabies virus. Discuss in detail about the laboratory diagnosis and prophylaxis of rabies

SHORT ESSAY

10 X 5 = 50 Marks

3. Dane's particle
4. MMR vaccine
5. Western blot test
6. Herpes simplex virus
7. *Enterobius Vermicularis*
8. Laboratory diagnosis of fungal infections
9. Structure of HIV
10. Larva migrans
11. Pathogenesis of *Dracunculus medinensis*
12. *Candida albicans*

SHORT ANSWERS

16 X 2 = 32 Marks

13. Various *Aspergillus* species
14. Cercaria
15. Hepatitis 'C' virus
16. Name four oncogenic viruses
17. Dimorphic fungi
18. Classification of fungi
19. Anti retro viral drugs
20. Scolex of *Taenia Solium*
21. Cyst of *Entamoeba coli*
22. Decorticated egg of *Ascaris*
23. Parasites causing fever
24. *Hymenolepis nana* egg
25. Hook worm anemia
26. Parasites in reticulo endothelial system
27. Larva of *strongyloides stercoralis*
28. Casoni's test

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - December 2010

30A

Time: 3 Hrs.

[Max. Marks: 100]

MICROBIOLOGY - PAPER I (Revised Scheme)

QP Code: 1058

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 9 = 18 Marks

1. Draw and label the bacterial cell. Describe the structure, functions, antigenicity, distribution and demonstration of flagella
2. Describe the morphology, cultural, biochemical properties and pathogenesis of Staphylococcus aureus. Add a note on drug resistance

SHORT ESSAY

10 X 5 = 50 Marks

3. Robert Koch
4. Radiation
5. Transduction
6. Active immunity
7. Immunological surveillance
8. Halophilic vibrios
9. Type IV hypersensitivity reaction
10. Laboratory diagnosis of Mycoplasma pneumoniae
11. Pathogenicity of Clostridium perfringens
12. Laboratory diagnosis of Haemophilus influenzae

SHORT ANSWERS

16 X 2 = 32 Marks

13. Tests for disinfectants
14. Citrate utilization tests
15. Iatrogenic infections
16. T cell Immuno deficiency disorders
17. Four differences between exotoxin and endotoxin
18. Name four organ specific auto immune diseases
19. Tests used for differentiating resistant Mycobacterium tuberculosis
20. Biological false positive conditions
21. Q Fever
22. Negative staining
23. Differences between Streptococcus pneumoniae and Streptococcus viridans
24. Four examples of slide agglutination tests
25. Name four bacterial vaccines
26. Bacterial inclusion bodies
27. Draw diagram showing distribution of bacterial spore
28. Lymphokine Activated Killer Cell

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination – December 2010

30B

Time: 3 Hrs.

[Max. Marks: 100]

MICROBIOLOGY - PAPER I (Revised Scheme II)

30B

QP Code: 1083

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Mention the organisms causing Pyogenic Meningitis. Describe the laboratory diagnosis of pyogenic meningitis.
2. Describe the pathogenicity, Lab diagnosis and prophylaxis of Diphtheria

SHORT ESSAY

10 X 5 = 50 Marks

3. Transduction
4. Enterococcus
5. Gaseous disinfectants
6. Primary atypical pneumonia
7. Q fever
8. Bacterial food poisoning
9. Describe H L A antigens and their role in immunity
10. Weil's disease
11. Serodiagnosis of syphilis
12. Enteropathogenic Escherichia coli

SHORT ANSWERS

10 X 3 = 30 Marks

13. Edward Jenner
14. Diagram of secretory antibody
15. Passive agglutination test
16. Enrichment media
17. Functions of macrophage
18. Enzymes produced by streptococcus pyogenes
19. Typhoid vaccines
20. Diseases caused by Mycoplasma
21. Neil Moseley Reaction
22. Adjuvant

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Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - June/July 2010

(31)

Time: 3 Hrs.

[Max. Marks: 100]

MICROBIOLOGY - PAPER II (Revised Scheme II)

QP Code: 1084

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Describe the morphology, pathogenesis & laboratory diagnosis of Entamoeba histolytica
2. Describe the pathogenicity & laboratory diagnosis of HIV infection

SHORT ESSAY

10 X 5 = 50 Marks

3. Dermatophytes
4. Chicken pox
5. Prophylaxis against rabies
6. Opportunistic fungi
7. Nosocomial infection
8. Life cycle of Strongyloides stercoralis
9. Cysticercus Cellulosae
10. Schistosoma haematobium
11. Dengue fever
12. Cryptococcus neoformans

SHORT ANSWERS

10 X 3 = 30 Marks

13. Reynold's - Braude phenomenon
14. Name 3 Oncogenic viruses
15. Diagram of Egg of Trichuris trichiura
16. Mention 3 parasites causing anemia
17. Name 3 viruses causing gastroenteritis
18. Mention 3 fungi causing systemic mycosis
19. Prophylaxis against Polio
20. Mention 3 asexual spores of Fungi
21. Viral interference
22. Calabar swelling

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Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - June\July 2010

32

Time: 3 Hrs.

[Max. Marks: 100]

MICROBIOLOGY - PAPER II (Revised Scheme)

QP Code: 1059

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 9 = 18 Marks

1. Mention all the tape worms. Describe the life cycle, laboratory diagnosis and complications of *Taenia solium*
2. Describe the structure of rabies virus. Discuss in detail about the laboratory diagnosis and prophylaxis of rabies

SHORT ESSAY

10 X 5 = 50 Marks

3. Dane's particle
4. MMR vaccine
5. Western blot test
6. Herpes simplex virus
7. *Enterobius Vermicularis*
8. Laboratory diagnosis of fungal infections
9. Structure of HIV
10. Larva migrans
11. Pathogenesis of *Dracunculus medinensis*
12. *Candida albicans*

SHORT ANSWERS

16 X 2 = 32 Marks

13. Various *Aspergillus* species
14. Cercaria
15. Hepatitis 'C' virus
16. Name four oncogenic viruses
17. Dimorphic fungi
18. Classification of fungi
19. Anti retro viral drugs
20. Scolex of *Taenia Solium*
21. Cyst of *Entamoeba coli*
22. Decorticated egg of *Ascaris*
23. Parasites causing fever
24. *Hymenolepis nana* egg
25. Hook worm anemia
26. Parasites in reticulo endothelial system
27. Larva of *strongyloides stercoralis*
28. Casoni's test

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - June/July 2010

33

Time: 3 Hrs.

[Max. Marks: 100]

MICROBIOLOGY - PAPER I (Revised Scheme II)

QP Code: 1083

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Classify Immunity. Discuss the mechanism of innate immunity
2. What are the general properties of the family Enterobacteriaceae. Describe the pathogenesis and laboratory diagnosis of typhoid fever.

SHORT ESSAY

10 X 5 = 50 Marks

3. Bacterial Spore
4. Bacterial filter
5. Conjugation
6. Cell wall of Gram negative bacteria
7. Biological role of complement
8. Immunofluorescence
9. Arthus reaction
10. Lepromin test
11. Laboratory diagnosis of Rheumatic fever
12. Hideporters disease

SHORT ANSWERS

10 X 3 = 30 Marks

13. Robert Koch
14. Fimbriae
15. Nagler's reaction
16. Shigella flexnerii
17. Enzymes produced by Streptococcus pyogenes
18. Mitsuda reaction
19. Satellitism
20. Armadillo
21. Helicobacter pylori
22. Enterococci

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Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - June/July 2010

34

Time: 3 Hrs.

[Max. Marks: 100]

MICROBIOLOGY - PAPER I (Revised Scheme)

QP Code: 1058

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 9 = 18 Marks

1. Enumerate the bacteria causing Diarrhoea. Describe the laboratory diagnosis of Cholera
2. Enumerate various types of Antigen-Antibody reactions and describe the principle and applications of agglutination reactions

SHORT ESSAY

10 X 5 = 50 Marks

3. Dark field microscope
4. Tyndallisation
5. R Factor
6. Endotoxins
7. Haptens
8. Alternative pathway of complement activation
9. Enterococci
10. Widal test
11. Non Gonococcal urethritis (NGU)
12. Tuberculin test

SHORT ANSWERS

16 X 2 = 32 Marks

13. Morphology of treponema pallidum
14. Neil mooser reaction
15. Four differences between Streptococcus viridans and Pneumococcus
16. L-forms
17. Rapid plasma reagin (RPR) test
18. Name four animals used to cultivate Mycobacterium leprae
19. Prophylaxis for diphtheria
20. X and V factors
21. Two methods for testing the efficacy of an autoclave
22. Morphology of Neisseria meningitidis
23. Four examples of Nansporing Anaerobes
24. TAB vaccine
25. Stains used for Corynebacteria
26. Robertsons cooked meat medium (RCM)
27. Nagler reaction
28. What is Satellitism?

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination – June / July 2011

35

Time: 3 Hrs.

[Max. Marks: 100]

MICROBIOLOGY - PAPER II (Revised Scheme)

QP Code: 1059

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 9 = 18 Marks

1. Enumerate cestodes of human importance. Describe the life cycle, pathogenicity and laboratory diagnosis of Hydatid Worm
2. Enumerate important ARBO viruses. Write on epidemiology and pathogenesis and lab. Diagnosis of Japanese B encephalitis virus

SHORT ESSAY

10 X 5 = 50 Marks

3. Draw a labeled diagram of embryonated egg. Name the viruses grown by the available routes
4. Discuss the role of non-specific immunological responses in viral infections
5. Immunoprophylaxis of rabies
6. Laboratory diagnosis of polio
7. Cryptococcus Neoformans
8. Rhinosporidiosis
9. Opportunistic fungi
10. Laboratory diagnosis of Toxoplasmosis
11. Enterobius vermicularis
12. Explain life cycle of Strongyloides stercoralis

SHORT ANSWERS

16 X 2 = 32 Marks

13. Enumerate four viruses causing meningitis
14. Enumerate four live viral vaccines
15. Mention immunization schedule for Human Diploid Cell culture vaccine for rabies
16. Name four anti viral drugs
17. Explain the importance of p24 antigen detection
18. Name two vaccine preventable hepatitis viruses
19. Enumerate four fungi showing dimorphism
20. Enumerate four fungi strongly associated with AIDS
21. Draw a labeled diagram of Rhizopus
22. Name three vectors transmitting protozoal disease
23. Mention the skin appendage NOT affected by microsporum and Epidermophyton EACH
24. Draw a labeled diagram of Entamoeba histolytica vegetative form
25. Mention two important parasites causing anaemia
26. Name two parasites for which man behaves as an intermediate host
27. Name a parasite transmitted by EACH: Cat, Dog, Pig, Cow

28. Draw the diagram of Hookworm ova

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - June / July 2011

36

Time: 3 Hrs.

[Max. Marks: 100]

MICROBIOLOGY - PAPER II (Revised Scheme II)

QP Code: 1084

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Classify Herpes virus. Describe the pathogenesis laboratory diagnosis of herpes simplex virus
2. Enumerate somatic nematodes. Describe morphology, pathogenicity and laboratory diagnosis of dracunculus medinensis

SHORT ESSAY

10 X 5 = 50 Marks

3. Microfilaria
4. Rhabditiform larva and filariform larva
5. Superficial mycotic infections
6. Cryptococcus neoformans
7. Cultivation of viruses
8. Nosocomial infections
9. Markers of viral hepatitis B
10. Negri bodies
11. Antigenic variations in influenza virus
12. Pulse polio programme

SHORT ANSWERS

10 X 3 = 30 Marks

13. Viral hemagglutination
14. Interferons
15. Killed viral vaccines
16. Phage typing
17. Saturated salt floatation technique
18. Microsporidia
19. Laboratory diagnosis of enterobius vermicularis
20. Differences between wucheraria bancrofti and brugia malayi
21. Morphology of Echinococcus granulosus
22. Miracidium

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Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - June / July 2011

37

Time: 3 Hrs.

[Max. Marks: 100]

MICROBIOLOGY - PAPER I (Revised Scheme II)

QP Code: 1083

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Discuss in detail the pathogenesis & lab diagnosis of enteric fever. Add a note on antigenic variation in salmonella
2. Classify hypersensitivity with examples. Describe type I hypersensitivity

SHORT ESSAY

10 X 5 = 50 Marks

3. Compare exotoxins & endotoxins
4. Types of bacteriological media
5. Fluorescent microscope
6. Flagella
7. Characters of pathogenic staphylococci
8. Lab diagnosis of gonorrhoea
9. Prophylaxis of tetanus
10. Rapid plasma reagin test
11. Relapsing fever
12. Nocardia

SHORT ANSWERS

10 X 3 = 30 Marks

13. Passive acquired immunity
14. Immunoglobulin M
15. Weil - felix reaction
16. Activation of alternative complement pathway
17. Antigen presenting cells
18. LE cell phenomenon
19. Mechanism of allograft rejection
20. Tetanospasmin
21. Widal test
22. Satellitism

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Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - Dec 2011 / Jan 2012

38

Time: 3 Hrs.

[Max. Marks: 100]

MICROBIOLOGY - PAPER II (Revised Scheme II)

QP Code: 1084

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Classify nematodes. Describe the life cycle and lab diagnosis of *Wuchereria bancrofti*
2. Enumerate Herpes viruses. Describe the pathogenesis and lab diagnosis of Herpes simplex virus

SHORT ESSAY

10 X 5 = 50 Marks

1. Opportunistic fungal infections in AIDS
4. Fungal infections of skin
5. General characters of cestodes
6. Stool concentration techniques
7. Life cycle of *Schistosoma haematobium*
8. Life cycle of hook worm
9. Slow viral diseases
10. Hepatitis B markers
11. Polio vaccines
12. Interferons

SHORT ANSWERS

10 X 3 = 30 Marks

13. Dimorphic fungi
14. *Rhinosporidium*
15. *Aspergillus*
16. *Cysticercus cellulosae*
17. QBC test for malaria
18. *Enterobius vermicularis*
19. Draw *Giardia lamblia* trophozoite and cyst
20. Negri bodies
21. Draw and label influenza virus
22. Western - Blot test for HIV

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Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - Dec 2011 / Jan 2012

39

Time: 3 Hrs.

[Max. Marks: 100]

MICROBIOLOGY - PAPER I (Revised Scheme II)

QP Code: 1083

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Classify hypersensitivity reactions. Describe in detail Type I hypersensitivity reaction
2. Discuss the pathogenicity and laboratory diagnosis of enteric fever. Add a note on its prophylaxis

SHORT ESSAY

10 X 5 = 50 Marks

1. Hot air oven
4. Group B. Streptococci
5. Mechanisms of autoimmunity
6. MRSA
7. Anaerobic culture methods
8. Halophilic vibrios
9. Helicobacter pylori
10. Bacterial conjugation
11. Laboratory diagnosis of pulmonary tuberculosis
2. Biological functions of complement

SHORT ANSWERS

10 X 3 = 30 Marks

13. Give 3 contributions of Louis Pasteur
14. Artificial active immunity
15. Classify Atypical Mycobacteria with examples
16. Define Heterophile antigen. Give two examples
17. Structure of Immunoglobulin G. (IgG)
18. Differences between EI - tor and Classical vibrios
19. Name Specific tests for syphilis
20. Indole tests
21. Names 3 methods to demonstrate motility of bacteria
22. Lepromin test

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Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination – Dec 2011 / Jan 2012

40

Time: 3 Hrs.

[Max. Marks: 90]

MICROBIOLOGY (Old Scheme)

QP Code: 1007

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Classify viruses. Describe laboratory diagnosis and prophylaxis of hepatitis B virus
2. Define hypersensitivity. Give an account of type I hypersensitivity

SHORT ESSAY

10 X 5 = 50 Marks

3. Cryptococcus
4. BCG Vaccine
5. Widal test
6. Transport media
7. Flagella
8. Immunoglobulin M
9. Laboratory diagnosis of Kala-Azar
10. Hot air oven
11. Viral inclusion bodies
12. Exotoxins

SHORT ANSWERS

10 X 2 = 20 Marks

13. Examples of spore forming bacteria
14. Name two lactose fermentors
15. Mention two bile stained nematode egg
16. Labeled diagram of Penicillium
17. Quellung reaction
18. Enumerate Arbovirus infections in India
19. Name two water borne infections
20. Name stains used for fungi
21. Any two differences between active and passive immunity
22. Name four species of Plasmodium

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Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - June / July 2012

Time: 3 Hrs.

[Max. Marks: 100]

MICROBIOLOGY - PAPER I (Revised Scheme II)

(91)

QP Code: 1083

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Classify Hypersensitivity. Describe the mechanism of each one of them with examples
2. Describe the morphology, pathogenesis and lab diagnosis of cholera

SHORT ESSAY

10 X 5 = 50 Marks

3. Louis pasteur
4. Sterilization by Radiation
5. Anaerobic culture methods
6. Mutation and drug resistance
7. Specific tests for Syphillis
8. Bacterial virulence factors
9. Human leukocyte antigens (HLA)
10. Cell mediated immune response
11. Gas gangrene
12. Chlamydia

SHORT ANSWERS

10 X 3 = 30 Marks

13. Bacterial spore
14. Transposons
15. Polymerase chain reaction
16. Endotoxin
17. Adjuvants
18. Direct immunoflorescence
19. ~~Gardnerella~~ vaginalis *Gardnerella*
20. Widal test
21. Classify streptococci
22. Well - Felix test

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Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - June / July 2012

Time: 3 Hrs.

[Max. Marks: 100]

MICROBIOLOGY - PAPER II (Revised Scheme II)

42

QP Code: 1084

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Describe in detail geographical distribution, habitat, morphology, lifecycle and pathogenicity of *Leishmania donovani*
2. Draw labelled diagram of rabies virus. Describe the laboratory diagnosis and prophylaxis of rabies

SHORT ESSAY

10 X 5 = 50 Marks

3. Modes of transmission of infection
4. Urinary tract infection
5. *Histoplasma capsulatum*
6. Mycetoma
7. Post exposure prophylaxis for HIV
8. Epstein - bar virus
9. Measles virus
10. Rhinoviruses
11. *Trichomonas vaginalis*
12. Classification of microfilaria

SHORT ANSWERS

10 X 3 = 30 Marks

13. Structure of viruses
14. Uses of embryonated egg
15. Name methods of viral assays
16. Prions
17. Vectors in parasitology
18. Genital flagellates
19. Casoni's test
20. Occult filariasis
21. *Hymenoleps nana*
22. Stoll's method for worm burden

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Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE II Degree Examination – Dec 2012

Time: Three Hours

Max. Marks: 100 Marks

MICROBIOLOGY -Paper -I

(RS2 & RS3 SCHEME)

QP Code: 1083

Your answers should be specific to the questions asked

Draw neat labeled diagrams wherever necessary

LONG ESSAYS

2 x 10 = 20 Marks

1. Describe the structure and functions of Immunoglobulin G. Add a note on monoclonal antibodies.[4+3+3]
2. Classify medically important Clostridia. Describe pathogenesis and laboratory diagnosis of gas gangrene[2+4+4]

SHORT ESSAYS

10 x 5 = 50 Marks

3. Structure of bacterial cell wall
4. Disinfectants used in hospitals
5. Pathogenesis of Typhoid fever
6. Mechanism of Anaphylaxis.
7. Bacteriological examination of drinking water
8. Q fever
9. Immunoprophylaxis of diphtheria
10. Etiology and laboratory diagnosis of acute pyogenic meningitis.
11. Blood culture
12. Diarrhoeogenic E.coli

SHORT ANSWERS

10 x 3 = 30 Marks

13. Selective media
14. Koch's postulates
15. Prozone phenomenon
16. Uses and demerits of VDRL test
17. Laboratory diagnosis of Staphylococcal skin infection
18. Mantoux test
19. Mechanism of action of cholera toxin
20. Events in log phase of bacterial growth curve
21. Adjuvants
22. Complement deficiency diseases

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - **Dec 2013**

Time: 3 Hrs.

[Max. Marks: 90]

MICROBIOLOGY (Old Scheme)

QP Code: 1007

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Mention important causes of P.U.O (Pyrexia of unknown of origin). Discuss pathogenesis and laboratory diagnosis of enteric fever
2. Define and classify immunoglobulin. Describe the characters of Ig G

SHORT ESSAY

10 X 5 = 50 Marks

3. P.C.R
4. Dengue virus
5. Phagocytosis
6. Bacteriophage
7. Casonis test
8. Differences between active and passive immunization
9. Schistosoma haematobium
10. Strongyloidosis
11. Mycetoma
12. Candida Albicans

SHORT ANSWERS

10 X 2 = 20 Marks

13. Chancre
14. Precipitation reaction ^{Active} examples
15. Widal test
16. Robert Koch
17. Name four organisms causing pyogenic meningitis
18. Name TRIC agents
19. Draw the growth curve of bacteria
20. Plasmids
21. Oral vaccines
22. Name four culture media

HS

Rajiv Gandhi University of Health Sciences, Karnataka
M.B.B.S. PHASE II Degree Examination – Dec 2013

Time: Three Hours

Max. Marks: 100 Marks

MICROBIOLOGY -Paper -II
(RS2 & RS3 SCHEME)
QP Code: 1084

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS

2 x 10 = 20 Marks

1. Describe the pathogenesis and laboratory diagnosis of Rabies. Add a note on prophylaxis of rabies in humans.
2. Describe the pathogenesis and laboratory diagnosis of Falciparum malaria.

SHORT ESSAYS

10 x 5 = 50 Marks

3. Lung fluke
4. Laboratory diagnosis of Echinococcosis
5. River blindness
6. Laboratory diagnosis of influenza
7. Yellow fever
8. Pathogenesis of HIV infection
9. Cryptococcosis
10. Mucormycosis
11. Laboratory diagnosis of urinary tract infection
12. Pyrexia of unknown origin

SHORT ANSWERS

10 x 3 = 30 Marks

13. Feature of stool in amoebic dysentery
14. Congenital toxoplasmosis
15. Enumerate tissue nematodes along with their habitat
16. Classify leishmaniasis and list the agents causing each type of disease
17. List cytomegalovirus infections
18. Hand foot and mouth disease
19. Laboratory diagnosis of hepatitis A virus infection
20. SSPE
21. List viruses causing central nervous system infections
22. Cysticercus bovis

Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S Second Phase Degree Examination – Dec 2013

Time: Three Hours

Max. Marks: 100 Marks

Microbiology -PAPER II (REVISED SCHEME)

QP Code: 1059

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS

2 x 9 = 18 Marks

1. Classify Arboviruses. Discuss in details about clinical disease, laboratory diagnosis and prevention of Dengue Fever.
2. Enumerate the parasites infecting HIV infected persons and describe the life cycle and laboratory diagnosis of Strongyloides stercoralis.

SHORT ESSAYS

10 x 5 = 50 Marks

3. Pathogenesis and Clinical features of Aspergillosis.
4. Rhinosporidiosis
5. List the organisms causing urinary tract infection and describe its laboratory diagnosis
6. Name the etiological agents causing bacterial meningitis and write its lab diagnosis
7. Polio prophylaxis
8. Pathogenesis and clinical presentation of Parvo-virus infection
9. Creutzfeldt- Jacob disease
10. Life Cycle of Fasciola hepatica
11. Pathogenesis and clinical features of Hookworm infection.
12. Laboratory diagnosis of lymphatic filariasis

SHORT ANSWERS

16 x 2 = 32 Marks

13. Egg of Enterobius vermicularis
14. Miracidium larva
15. Four differences between amoebic dysentery and bacillary dysentery
16. Baerman's technique
17. Trophozoite of Entamoeba histolytica
18. Four salient features of Cestodes
19. Morphology of Influenza virus
20. Neural vaccines for Rabies
21. Diagnosis of rubella virus infection
22. Malignant tertian fever
23. Cytopathogenic effects (CPE)
24. Principle of Western Blot testing
25. MMR vaccine
26. Four complications of measles infection
27. Classification of Picornaviruses
28. Egg of Taenia worms

H7

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M.B.B.S. PHASE II Degree Examination – Dec 2013

Time: Three Hours

Max. Marks: 100 Marks

MICROBIOLOGY -Paper -I
(RS2 & RS3 SCHEME)
QP Code: 1083

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS

2 x 10 = 20 Marks

1. Define and classify sterilization. Describe steam sterilization. 1+3+6
2. Classify immunity. Discuss in detail acquired immunity 3 + 7

SHORT ESSAYS

10 x 5 = 50 Marks

3. Bacterial flagella
4. Mutational drug resistance
5. Structure of Ig G
6. Type II hypersensitivity
7. Pathogenesis and laboratory diagnosis of gonorrhoea
8. Diseases caused by Group A streptococci
9. Brucellosis
10. Laboratory diagnosis of cholera
11. Give a brief account of Atypical mycobacteria
12. Lymphogranuloma venereum

SHORT ANSWERS

10 x 3 = 30 Marks

13. Pathogenesis of tetanus
14. Laboratory diagnosis of primary syphilis
15. Methods to enumerate viable count of bacteria
16. Adjuvants
17. Enumerate immunodeficiency diseases
18. Principle and uses of immunofluorescence test
19. Laboratory diagnosis of pneumococcal meningitis
20. Enumerate bacterial agents of food poisoning
21. DPT vaccine
22. Enumerate diseases caused by Escherichia coli

Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S Second Phase Degree Examination – Dec 2013

Time: Three Hours

Max. Marks: 100 Marks

Microbiology -PAPER I (REVISED SCHEME)

QP Code: 1058

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS

2 x 9 = 18 Marks

1. Define antibody. Write in details about different types of antibodies and their functions.
2. Write in details about the virulence factors, pathogenesis and laboratory diagnosis of *Helicobacter pylori*.

SHORT ESSAYS

10 x 5 = 50 Marks

3. Mutagens
4. Mechanisms of antibiotic resistance
5. Types of culture media
6. Autoclave
7. Mononuclear phagocytic system
8. Exotoxin of *Clostridium tetani*
9. Pneumonic plague
10. Pathogenesis and Infections caused by *Haemophilus influenzae*
11. Laboratory diagnosis of *Bordetella pertussis*
12. Cultivation of *Mycobacterium leprae*

SHORT ANSWERS

16 x 2 = 32 Marks

13. Prozone phenomenon
14. Hybridoma cell
15. MHC restriction
16. Membrane attack complex of complement
17. Anamnestic reactions
18. Ouchterlony procedure
19. Four differences between Immediate and delayed immunity
20. Arthus reaction
21. Toxic shock syndrome toxin (TSST)
22. Water-can perineum
23. Bacteriocins
24. Kauffman White Scheme
25. Soft Chancre
26. Clinical disease caused by non-photochromogen type of *Mycobacteria*
27. Four differences between lepromatous and tuberculoid leprosy
28. Principle and use of FTA-ABS test