

Rajiv Gandhi University of Health Sciences

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

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

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)

30R

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. Entero coccus
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. Entero pathogenic 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 pyogens
19. Typhoid vaccines
20. Diseases caused by Mycoplasma
21. Neil Mooser Reaction
22. Adjuvant

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 gonorrhea
9. Prophylaxis of tetanus
10. Rapid plasma reg in 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

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
12. 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. Name 3 methods to demonstrate motility of bacteria
22. Lepromin test

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)

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 Syphilis
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 immunofluorescence
19. ~~Gardnerella~~ vaginalis *Gardnerella*
20. Widal test
21. Classify streptococci
22. Well - Felix test

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, Karnataka

M.B.B.S. PHASE II Degree Examination – June 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. Draw neat labeled diagram of bacterial cell. Describe flagella in detail. 5 + 5
2. Describe the pathogenesis and laboratory diagnosis of typhoid fever. 5 + 5

SHORT ESSAYS

10 x 5 = 50 Marks

3. Bacterial conjugation
4. Hot air oven
5. Antimicrobial susceptibility testing
6. Humoral immune response
7. Agglutination reactions
8. Type IV hypersensitivity
9. Structure of Ig M
10. Laboratory diagnosis of acute pyogenic meningitis
11. Virulence factors of Staphylococcus aureus and their disease association
12. Secondary syphilis and laboratory diagnosis

SHORT ANSWERS

10 x 3 = 30 Marks

13. MHC restriction
14. Disease mechanism of acute rheumatic fever
15. Haptens
16. Natural acquired immunity
17. Various modes of transmission of infections and examples
18. Mechanisms of autoimmunity
19. Enumerate bacterial agents causing wound infection
20. Laboratory diagnosis of gonococcal urethritis
21. Cutaneous anthrax
22. Mantoux test

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 -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 gonorrhea
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

MBBS (Phase - II) Degree Examination - June 2014

Time: Three Hours

Max. Marks: 100 Marks

Microbiology – Paper I (RS2 & RS3 Scheme)

Q.P. 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 Sterilization and Disinfection. Describe Moist Heat Sterilization. (3+7)
2. Describe basic structure of Immunoglobulin Molecule. Describe different types of Immunoglobulins. (3+7)

SHORT ESSAYS

10 x 5 = 50 Marks

3. Transferable Drug resistance
4. Molecular diagnostic methods
5. Laboratory diagnosis of Pulmonary Tuberculosis
6. Virulence factors of Bacteria
7. Non-sporing Anaerobes
8. Bacterial food poisoning
9. Media used in diagnosis of Cholera
10. Actinomycetes
11. Innate Immunity
12. ELISA

SHORT ANSWERS

10 x 3 = 30 Marks

13. Weil Felix reaction
14. Coagulase test
15. Carrier
16. Capsule of Bacteria
17. VDRL test
18. Elek's test
19. MRSA
20. Micrometry
21. Passive Immunity
22. Phagocytes

Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE II Degree Examination – DEC-2014

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. Discuss dry heat sterilization. 1+3+6
2. Describe pathogenesis and laboratory diagnosis of Diphtheria. Add a note on prophylaxis.
3+4+3

SHORT ESSAYS

10 x 5 = 50 Marks

3. Bacterial spore
4. Growth curve of bacteria
5. Laboratory diagnosis of cholera
6. Type III hypersensitivity
7. Structure of Ig A
8. Passive immunity
9. Give a brief account of cells of lymphoreticular system
10. Laboratory diagnosis of pulmonary tuberculosis
11. VDRL test
12. Pathogenesis of tetanus

SHORT ANSWERS

10 x 3 = 30 Marks

13. Enumerate bacteria causing acute pyogenic meningitis in various age groups of patients
14. Presumptive coliform count
15. Anaerobic culture media
16. Properties of antigen
17. Types of primary immunodeficiency diseases and one example for each
18. Chemical mediators of anaphylaxis and their actions
19. Enumerate various methods of performing antimicrobial susceptibility testing
20. Weil Felix test
21. Methods to detect carriers of typhoid fever
22. Enumerate agents causing various types of bacterial food poisoning

Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE II Degree Examination – JULY 2015

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. Enumerate methods of gene transfer in bacteria. Describe conjugation and write the significance of conjugation. [2+6+2]
2. Name the pyogenic cocci. Write the virulence factors, diseases caused and laboratory diagnosis of *Staphylococcus aureus*. [1+3+3+3]

SHORT ESSAYS

10 x 5 = 50 Marks

3. Mechanism of type I hypersensitivity
4. Disinfectants used in the hospital
5. Classical complement pathway
6. Laboratory diagnosis of brucellosis
7. Bacterial spore
8. Non specific tests for syphilis
9. Structure and function of immunoglobulin A
10. Laboratory diagnosis of Typhoid fever.
11. BCG vaccine
12. Q fever

SHORT ANSWERS

10 x 3 = 30 Marks

13. Transport media
14. Enumerate modes of transmission of infections with examples
15. Enumerate features of passive immunity
16. Cholera toxin
17. Passive agglutination test
18. Mechanisms of autoimmunity
19. Anti streptolysin 'O' test
20. Malignant pustule
21. Infections caused by *Pseudomonas aeruginosa*
22. Laboratory diagnosis of Shigellosis

Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE II Degree Examination – DECEMBER 2015

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 Immunity. Discuss Innate immunity. (1+3+6)
2. Enumerate medically important Spirochaetes along with diseases caused. Describe pathogenesis and laboratory diagnosis of Leptospirosis. (3+3+4)

SHORT ESSAYS

10 x 5 = 50 Marks

3. Bacterial filters
4. Meningococcal meningitis
5. Genetic transfer by conjugation and its significance
6. Briefly write the factors predisposing to microbial pathogenicity
7. Applications of agglutination reactions
8. Non sporing anaerobes
9. Delayed hypersensitivity
10. Non suppurative complications of Streptococcus pyogenes infections and its laboratory diagnosis.
11. Pathogenesis of Tetanus
12. Laboratory diagnosis of leprosy.

SHORT ANSWERS

10 x 3 = 30 Marks

13. Contributions of Robert Koch to microbiology
14. Anaerobic culture media
15. Enumerate methods of antimicrobial susceptibility testing and write principle of each
16. Structure of Major Histocompatibility Complex
17. Name primary lymphoid organs and write their functions
18. Cutaneous anthrax
19. Enzymes and toxins of Staphylococcus aureus
20. Cholera specimen – name three transport media with their uses
21. Vaccine for Typhoid
22. Laboratory diagnosis of Mycoplasma infections

Rajiv Gandhi University of Health Sciences, Karnataka

MBBS (Phase - II) Degree Examination - JUNE 2016

Time: Three Hours

Max. Marks: 100 Marks

Microbiology – Paper I (RS2 & RS3 Scheme)

Q.P. 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 Disinfection and Sterilization. Enumerate commonly used Disinfectants in Health Care setup. Describe where and how are these used. (1+1+2+6)
2. Define and Classify Hypersensitivity reactions. Discuss Type IV Hypersensitivity. (2+4+4)

SHORT ESSAYS

10 x 5 = 50 Marks

3. Bacterial Spore
4. Contributions of Louis Pasteur
5. Describe methods of transfer of Genetic Material in Bacteria.
6. Passive Immunity
7. Structure and function of Immunoglobulin A (Ig A)
8. Lesions produced by Staphylococcus aureus
9. Weil – Felix test
10. Types of Escherichia Coli producing Diarrhoea – Diarrhogenic E.coli
11. Toxigenicity tests for Corynebacterium diphtheriae
12. Laboratory diagnosis of Leptospirosis

SHORT ANSWERS

10 x 3 = 30 Marks

13. Principle and uses of Dark Ground Microscopy
14. Blood Agar
15. Methods of transport of Specimen for laboratory diagnosis of Cholera
16. Tuberculin test
17. Describe laboratory diagnosis of Bacillary Dysentery.
18. Enumerate organisms causing Acute Pyogenic Meningitis.
19. Helicobacter pylori
20. Biomedical waste management
21. Enumerate mechanisms of Autoimmunity.
22. Diphtheria, Pertussin and Tetanus toxoid (DPT) vaccine

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 Hypersensitivity. Describe type III hypersensitivity. (1+2+7).
2. Classify Mycobacteria. Discuss the laboratory diagnosis of Pulmonary tuberculosis. Add a note on multidrug resistant tuberculosis. (2+6+2)

SHORT ESSAYS

10 x 5 = 50 Marks

3. Bacterial spore
4. Moist heat sterilization
5. Q fever
6. Pathogenesis of Gas gangrene
7. Specific tests for Syphilis
8. Alternate complement pathway
9. Mechanisms of innate immunity
10. Non suppurative diseases by Group A streptococci
11. Laboratory diagnosis of cholera
12. Non gonococcal urethritis

SHORT ANSWERS

10 x 3 = 30 Marks

13. Haptens
14. Transferable drug resistance
15. Structure of Gram negative bacterial cell wall
16. Rat bite fever
17. Passive agglutination test
18. Laboratory diagnosis of pneumococcal meningitis
19. Diphtheria, Pertussis and Tetanus (DPT) vaccine
20. Enterotoxigenic Escherichia coli
21. Uses and interpretations of Widal test
22. Vincent's angina

Rajiv Gandhi University of Health Sciences, Karnataka

MBBS (Phase - II) Degree Examination - JUNE 2017

Time: Three Hours

Max. Marks: 100 Marks

Microbiology – Paper I (RS2 & RS3 Scheme)

Q.P. 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 Infection. Name the different types of Infection. Describe sources of Infection. (1+3+6)
2. Enumerate the organisms causing Pyogenic meningitis. Describe in detail pathogenesis and laboratory diagnosis of Meningococcal meningitis. (3+3+4)

SHORT ESSAYS

10 x 5 = 50 Marks

3. Plasmid
4. Autoimmunity
5. Precipitation reactions
6. Laboratory diagnosis of Pulmonary Tuberculosis
7. Methods of Anaerobiosis
8. Mycoplasma pneumoniae
9. Standard tests for Syphilis
10. Lepromin test
11. Bacterial Spore
12. Laboratory diagnosis of Typhoid fever

SHORT ANSWERS

10 x 3 = 30 Marks

13. Heterophile Antigen
14. Differences between El Tor and Classical Vibrio
15. Classification of Staphylococci
16. Prevention of Tetanus
17. Draw a neat labeled diagram of IgM
18. Electron Microscope
19. Methods of obtaining pure culture of Bacteria
20. Selective Media
21. Significant Bacteriuria
22. Non-suppurative infections of Streptococcus pyogenes

Rajiv Gandhi University of Health Sciences, Karnataka

MBBS (Phase - II) Degree Examination - DEC-2017

Time: Three Hours

Max. Marks: 100 Marks

Microbiology – Paper I (RS2 & RS3 Scheme)

Q.P. 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 Culture Media with examples. (5+5)
2. Define Immunoglobulin. Describe structure and function of the five classes of Immunoglobulins. (2+4+4)

SHORT ESSAYS

10 x 5 = 50 Marks

3. Bacterial Capsule
4. Enumerate organisms commonly causing Hospital Acquired infections.
5. Mechanisms of Innate Immunity
6. Precipitation reactions.
7. Classify and enumerate Immunodeficiency diseases.
8. Enumerate Lesions produced by Neisseria Gonorrhoea.
9. Laboratory diagnosis of Gas gangrene
10. Classification of Chlamydia
11. Laboratory diagnosis of Enteric fever
12. Laboratory diagnosis of Pulmonary Tuberculosis

SHORT ANSWERS

10 x 3 = 30 Marks

13. Non specific serological test for Syphilis
14. Laboratory diagnosis of Acute Rheumatic Fever
15. Halophilic Vibrios
16. Methods to prevent Swarming of Proteus Species
17. Bacterial Zoonoses
18. Elek's gel precipitation test
19. Hot Air Oven
20. Transposons (Jumping Genes)
21. Labelled diagram of Bacterial Growth Curve
22. Principle and uses of Polymerase Chain Reaction (PCR)

Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE II Degree Examination – JULY-2018

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. Enumerate antigen antibody reactions. Describe the various types and applications of agglutination reaction. [3+ 7]
2. Describe the pathogenesis and laboratory diagnosis of cholera. [5+5]

SHORT ESSAYS

10 x 5 = 50 Marks

3. Bacterial flagella
4. Chemical disinfectants
5. Various types of culture media and their uses
6. Bacterial plasmids
7. Pathogenesis of *Corynebacterium diphtheriae*
8. Monoclonal antibodies
9. Type III hypersensitivity
10. Brucellosis
11. Laboratory diagnosis of extra pulmonary tuberculosis
12. *Helicobacter pylori*

SHORT ANSWERS

10 x 3 = 30 Marks

13. Koch's postulates
14. Bacterial exotoxins
15. Enumerate biological effects of complement
16. Functions of Ig G
17. Enumerate bacteria causing sexually transmitted infections.
18. Pulmonary anthrax
19. Rapid plasma reagin test
20. Enumerate diseases caused by *Haemophilus influenzae*
21. Inclusion conjunctivitis
22. Laboratory diagnosis of Meningococcal meningitis

Rajiv Gandhi University of Health Sciences, Karnataka

MBBS (Phase - II) Degree Examination - DEC-2018

Time: Three Hours

Max. Marks: 100 Marks

Microbiology – Paper I (RS2 & RS3 Scheme)

Q.P. 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. Enumerate various Antigen Antibody reactions. Describe Agglutination reactions with examples.
(4+6)
2. Enumerate organisms causing sexually transmitted disease. Describe laboratory diagnosis of Syphilis.
(3+7)

SHORT ESSAYS

10 x 5 = 50 Marks

3. Bacterial cell wall
4. Moist heat sterilization
5. Mechanisms of innate immunity
6. Type IV Hyper sensitivity reaction
7. Immunodiffusion tests
8. Types of Mutations with examples
9. Non suppurative lesions produced by Streptococci
10. Classical complement pathway
11. Laboratory diagnosis of cholera
12. Epidemic typhus

SHORT ANSWERS

10 x 3 = 30 Marks

13. Hapten
14. Labelled diagram of Immunoglobulin A
15. Major Histo Compatibility complex
16. Gas pak
17. Pili
18. Labelled diagram of bacterial growth curve
19. Culture media for Mycobacterium tuberculosis
20. Immune prophylaxis of diphtheria
21. Examples for combined immunodeficiency diseases
22. Clot culture

Rajiv Gandhi University of Health Sciences, Karnataka

MBBS (Phase - II) Degree Examination - JUNE-2019

Time: Three Hours

Max. Marks: 100 Marks

Microbiology – Paper I (RS2 & RS3 Scheme)

Q.P. 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. Enumerate different organisms causing Pyrexia of Unknown Origin. Describe pathogenesis and laboratory diagnosis of Typhoid Fever. (3+7)
2. Define and classify Hypersensitivity. Describe Type I Hypersensitivity reaction in detail. (1+3+6)

SHORT ESSAYS

10 x 5 = 50 Marks

3. Bacterial Cell Wall
4. Immunoglobulins
5. Resistance transfer factor
6. Chlamydiae
7. Atypical Mycobacteria
8. Lepromin test
9. Laboratory diagnosis of Urinary Tract Infection
10. Routes of Infection
11. Virulence factors of Streptococcus pyogenes
12. Leptospirosis

SHORT ANSWERS

10 x 3 = 30 Marks

13. Differentiate Cell Wall of Gram +ve and Gram -ve Bacteria.
14. Adjuvants
15. Enumerate organisms causing food poisoning
16. Agglutination reactions
17. Nagler's reaction
18. Plasma cell – IgG
19. Dark ground Microscope
20. Bacterial Growth curve
21. Disposal of Biomedical waste
22. Hot Air Oven

Rajiv Gandhi University of Health Sciences, Karnataka

MBBS (Phase - II) Degree Examination - 16-Dec-2019

Time: Three Hours

Max. Marks: 100 Marks

MICROBIOLOGY – PAPER I (RS2 & RS3)

Q.P. 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 Sterilization. Describe in detail Moist heat Sterilization. Add a note on sterilization control. (1+7+2)
2. Define Hypersensitivity. Classify Hypersensitivity reactions. Describe in detail about Anaphylaxis reaction. (1+2+7)

SHORT ESSAYS

10 x 5 = 50 Marks

3. Write a note on Helicobacter pylori.
4. Describe the structure and functions of IgG antibody.
5. Write in detail about Active immunity.
6. Mechanisms of autoimmunity
7. Agglutination reactions
8. Pathogenicity of Neisseria gonorrhoeae
9. Laboratory diagnosis of Anthrax
10. Write a note on Clostridium botulinum.
11. Laboratory diagnosis of Enteric fever
12. Describe the epidemiology of Cholera.

SHORT ANSWERS

10 x 3 = 30 Marks

13. Specific serological tests for Syphilis
14. Pathogenesis of non-suppurative post-Streptococcal sequelae
15. Write a note on Haemophilus ducreyi.
16. Enterotoxigenic Escherichia coli
17. Weil-Felix reaction
18. Selective media with examples
19. Plasmids
20. Bacterial Fermentation
21. Principle and uses of genetic engineering
22. Pathogenicity of Bordetella pertussis

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Rajiv Gandhi University of Health Sciences, Karnataka

MBBS (Phase - II) Degree Examination - 23-Nov-2020

Time: Three Hours

Max. Marks: 100 Marks

MICROBIOLOGY – PAPER I (RS3)

Q.P. 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 etiology, pathogenesis, clinical manifestations, complication and laboratory diagnosis of urinary tract infections.
2. Classify antigen antibody reactions in vitro. Describe immunofluorescent tests with examples.

SHORT ESSAYS

10 x 5 = 50 Marks

3. Autoclave.
4. Sporocidal disinfectants.
5. Anaphylaxis.
6. Role of IgA antibody in protection against infections.
7. Live attenuated vaccine.
8. Conjugation.
9. Enterococci.
10. Coagulase test
11. Chlamydia trachomatis.
12. Q. fever

SHORT ANSWERS

10 x 3 = 30 Marks

13. Tetanus toxoid.
14. Alternate complement pathway.
15. MHC restriction (Major Histocompatibility complex restriction).
16. Sterilization of endoscopes.
17. Transposons
18. Endotoxic shock.
19. Cultivation of Mycobacterium tuberculosis.
20. Horror autotoxicus.
21. Latex agglutination tests.
22. Significant bacteriuria.

Rajiv Gandhi University of Health Sciences, Karnataka

MBBS (Phase - II) Degree Examination - 06-Mar-2021

Max. Marks: 100 Marks

Time: Three Hours

MICROBIOLOGY – PAPER I (RS3)

Q.P. CODE: 1083

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

2 x 10 = 20 Marks

LONG ESSAYS

1. Define and enumerate organisms causing PUO. Describe the laboratory diagnosis of Enteric fever.
2. Enumerate Antigen Antibody reactions. Describe in detail about principle, types and applications of ELISA.

SHORT ESSAYS

10 x 5 = 50 Marks

3. Bacterial flagella.
4. Laboratory diagnosis of Diphtheria.
5. Principles and uses of autoclave.
6. Structure and functions of IgA.
7. Post Streptococcal sequelae.
8. Diarrhoeagenic E. coli.
9. Halophilic Vibrios.
10. Laboratory diagnosis of anaerobic infection.
11. Classical complement pathway.
12. Laboratory diagnosis of Syphilis.

SHORT ANSWERS

10 x 3 = 30 Marks

13. Nagler's reaction.
14. HACEK agents.
15. Contributions of Louis Pasteur.
16. Cholera red reaction.
17. Immune prophylaxis of Diphtheria.
18. Labeled diagram bacterial cell.
19. Classify Streptococci.
20. Culture media for Mycobacterium tuberculosis.
21. Gaseous sterilization.
22. Three difference between Active and Passive Immunity.
