Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination - 07-Jul-2023

[Time: 3 Hours] [Max. Marks: 100]

MICROBIOLOGY
PAPER – I (RS-2/RS-3)
Q.P. CODE: 7355

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

Answer All The Questions 10 X 10 = 100 Marks

1. Classify hypersensitivity reactions. Discuss in detail about type IV hypersensitivity reactions.
2. Discuss the structure of a bacterial cell. Add a note on cell wall deficient bacteria.
3. Testing of disinfectants.
4. Phagocytic cells.
5. Graft – Versus – Host reaction (GVH).
6. Autoimmunity.
7. Anaerobic culture methods.
8. Abnormal immunoglobulins.
9. Adjuvants.
10. Sterilisation controls.

M.D. Degree Examination - 10-Jul-2023

[Time: 3 Hours] [Max. Marks: 100]

MICROBIOLOGY
PAPER – II (RS-2/RS-3)
Q.P. CODE: 7356

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

Answer All The Questions 10 X 10 = 100 Marks

1. Classify the family Enterobacteriaceae. Discuss the pathogenesis and laboratory diagnosis typhoid fever.
2. Classify Spirochaetes. Discuss the laboratory diagnosis of Leptospirosis.
3. Describe the pathogenesis and laboratory diagnosis of Helicobacter pylori.
4. Describe the pathogenesis and laboratory diagnosis of gonorrhea. Add a note on dr resistance.
5. Classify anaerobes. Describe the laboratory diagnosis of Non-sporing anaerobic infections.
6. Discuss the aetiology and laboratory diagnosis of primary atypical pneumonia.
7. Enumerate the pathogens causing post operative wound infections. Discuss its laborat diagnosis.
8. Define nosocomial infection. Describe the laboratory diagnosis of nosocomial infections. Ad note on epidemiological typing methods.
9. Classify non-fermenters. Discuss the pathogenecity and laboratory diagnosis of infectic caused by them.
10. Discuss the pathogenesis and laboratory diagnosis of Chlamydia trachomatis infection.

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Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – 12-Jul-2023

[Time: 3 Hours] [Max. Marks: 100]

MICROBIOLOGY
PAPER – III (RS-2/RS-3)
Q.P. CODE: 7357

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

Answer All The Questions 10 X 10 = 100 Marks

1. Enumerate the fungi causing opportunistic infections in AIDS patients. Describe laboratory diagnosis of cryptococcal meningitis.
2. Enumerate viruses affecting the liver. Discuss the pathogenesis and laboratory diagnosis of Hepatitis B.
3. Describe the pathogenesis and laboratory diagnosis of Histoplasmosis.
4. Describe the laboratory diagnosis of dermatophytes.
5. Describe pathogenesis and laboratory diagnosis of Corona virus infection.
6. Discuss the antifungal drugs.
7. Classify Arboviruses. Describe the pathogenesis of Kyasanur forest disease.
8. Discuss in detail Polio vaccines.
9. Discuss in detail etiology and laboratory diagnosis of Rhinosporidiosis.
10. Describe the clinical manifestations in Aspergillosis.

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M.D. Degree Examination – 14-Jul-2023

[Time: 3 Hours] [Max. Marks: 100]

MICROBIOLOGY - PAPER – IV
(RS-2/RS-3)
Systematic Bacteriology Parasitology
Q.P. CODE: 7358

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

Answer All The Questions 10 X 10 = 100 Marks

1. List out zoonotic parasite diseases. Classify Leishmania and write in detail on the laboratory diagnosis of visceral leishmaniasis.
2. Classify filarial worms. Write in detail about immunology, pathogenesis of Wuchereria Bancrofti. Add a note on NVBDCP.
3. Cryptosporidium parvum.
4. Hydatid cyst.
5. Strongyloides stercoralis
6. Concentration techniques of stool.
7. Malaria vaccines.
8. Intradermal skin test in parasitic infections.
9. Neurocysticercosis.
10. Toxoplasmosis.

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Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination - 16-Dec-2023

[Time: 3 Hours] [Max. Marks: 100]

MICROBIOLOGY
PAPER – I (RS-2/RS-3)
Q.P. CODE: 7355

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

Answer All The Questions 10 X 10 = 100 Marks

1. Discuss the application of molecular techniques to the study of hospital acquired infections.
2. Write an essay on presentation of Antigen by the Antigen presenting cells.
3. BSL3 laboratory.
4. Vapor phase sterilants.
5. LAMP Assay.
6. Newer developments in Monoclonal antibodies and their applications.
7. Recombinant vaccines.
8. Role of Regulatory T cells.
9. Antibiotics inhibiting cell wall synthesis.
10. Graft Versus Host reaction. (GVH)

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M.D. Degree Examination - 18-Dec-2023

[Time: 3 Hours] [Max. Marks: 100]

MICROBIOLOGY
PAPER – II (RS-2/RS-3)
Q.P. CODE: 7356

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

Answer All The Questions 10 X 10 = 100 Marks

1. Describe the pathogenesis and laboratory diagnosis of Leptospirosis.
2. Describe the pathogenesis and laboratory diagnosis of gas gangrene.
3. Uropathogenic Escherichia coli.
4. Community acquired Methicillin Resistant Staphylococcus aureus.
5. Lepromin test.
6. Epidemiology and pathogenesis of Legionella.
7. Rat bite fever.
8. Pathogenesis of dysentery due to Shigella.
9. Penicillinare Producing Neisseriae Gonorrohea (PPNG).
10. Vibro Cholera O139.

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Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – 20-Dec-2023

[Time: 3 Hours] [Max. Marks: 100]

MICROBIOLOGY
PAPER – III (RS-2/RS-3)
Q.P. CODE: 7357

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

Answer All The Questions 10 X 10 = 100 Marks

1. List the aetiological agents, clinical presentations of mucormycosis and describe its pathogenesis.
2. An antenatal woman gives a history of recent contact with chicken pox. Describe the complications of chicken pox in the different stages of pregnancy. How do you determine their susceptibility to varicella zoster virus (VZV) infection? Outline the management giving reasons, if she is found to be susceptible to VZV infection.
3. Congenital viral infections.
4. Candidaemia in a patient in the ICU.
5. Describe measures you would take to minimize contamination in a routine mycology laboratory.
6. Present diagnostic modalities available for reporting and confirming HIV with emphasis on the NACO guidelines.
7. Inverted microscope and its application in viral diagnosis.
8. Zika virus.
9. Prions.
10. Rhinosporidiosis.

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M.D. Degree Examination – 22-Dec-2023

[Time: 3 Hours] [Max. Marks: 100]

MICROBIOLOGY - PAPER – IV
(RS-2/RS-3)
Systematic Bacteriology Parasitology
Q.P. CODE: 7358

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

Answer All The Questions 10 X 10 = 100 Marks

1. Enumerate the parasites affecting the brain. Explain in detail about the life cycle and laboratory diagnosis of any primary neurotropic parasite.
2. Parasitic infections of the muscle – elaborate the parasites and discuss laboratory diagnosis and control measures of any one of them in detail.
3. Write an account on the parasitic disease affecting the eye.
4. Write on the importance of mosquitoes as biological vectors of disease.
5. Taenia saginata.
6. Describe the pathogenesis of filariasis. What are the main problems associated with strategies currently available for the control of this infection?
7. Paragonimus westermani.
8. Echinococcus granulosus.
9. Exoerythrocytic cycle of Plasmodium vivax.
10. Usefulness of stool wet mount examination in parasite infections.

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