Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination - 21-Jun-2024

[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 molecular techniques used in microbiology. Add a note on gene therapy and gene mapping.
2. Describe the mechanism of graft rejection and its prevention.
3. Describe the role of T cells in cells mediated immunity.
4. Discuss the various in vitro antibiotic sensitivity testing methods.
5. Define and classify immunodeficiency disorders and their laboratory diagnosis.
6. Describe the evaluation of chemical sterilizing agents.
7. Describe the applications of genetic engineering technology for production of Vaccines.
8. Define and classify plasmids. Add a not on its uses.
9. Discuss the various anaerobic cultures methods.
10. Add a note on Topoisomerases.

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M.D. Degree Examination - 24-Jun-2024

[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. Discuss the etiology, pathogenesis and laboratory diagnosis of bacterial food poisoning.
2. Discuss the pathogenesis and laboratory diagnosis of a suspected case of pulmonary tuberculosis. Add a note on RNTCP.
3. Non-typhoidal salmonella.
4. Bubonic plague.
5. Actinomycosis.
6. Tularaemia.
7. Gas gangrene.
8. Q fever.
9. Halophilic vibrios.
10. Reemergence of Diphtheria.

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Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – 26-Jun-2024

[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. Classify herpes viruses. Discus the pathogenesis, clinical disease and laboratory diagnosis of Epstein Barr virus.
2. Describe pathogenesis and laboratory diagnosis of Blastomycosis.
3. Discuss in detail mosquito borne Arboviruses in India.
4. Describe the pathogenesis and laboratory diagnosis of Candidiasis. Add a note on drug resistance.
5. Describe NACO strategies for HIV testing in India.
6. List the etiological agents of Otomycosis and describe its laboratory diagnosis.
7. Describe the antigenic variations of Influenza virus. Add a note on Vaccines for H1N1.
8. Describe the pathogenesis and laboratory diagnosis of Sporotrichosis.
9. Discuss the antigens and pathogenesis of Hepatitis B.
10. Describe HIV vaccines.

M.D. Degree Examination –28-Jun-2024

Time: Three Hours Max. Marks: 100 Marks

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. Give an account of the recent advances in the diagnosis of parasitic infections.
2. Name the parasites causing anemia. Describe Ancylostomiasis.
3. Mention the Cestodes of medical importance. Mention the etiology, life cycle and laboratory diagnosis cysticercosis.
4. Enumerate the parasitic infections of CNS. Write in detail about their laboratory diagnosis.
5. Describe the morphology, life cycle and pathogenesis of Leishmania donovani. Write about the laboratory diagnosis of visceral leishmaniasis.
6. Give an account of common vector-borne parasitic infections seen in India.
7. Write in detail about the free-living amoebae pathogenic to man?
8. Describe the laboratory diagnosis of amoebic dysentery. Write a note on cultivation techniques of E. histolytica. Discuss the immune response to E. histolytica infection.
9. Enumerate food borne parasitic diseases. Discuss the Life cycle and Laboratory diagnosis of Fasciola hepatica.
10. Discuss Filariasis in India with a note on laboratory diagnostic methods.

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