Question Paper Code:U2051

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

M.B.B.S Phase-II Degree Examination JAN 2020

Time:3 hours **Max Marks:100**

MICROBIOLOGY- PAPER 1

Your answer should be specific to the question asked
Draw neat and labeled diagrams wherever necessary

LONG ESSAY ***2 X 10 = 20 Marks***

1. Enumerate 6 Clostridial species of medical importance. Describe the pathological events leading to gas gangrene. Outline the treatment for gas gangrene (3+4+3).
2. Define and classify hypersensitivity reactions. Describe the mechanism, pharmacological mediators and outcome of type I hypersensitivity. Outline the treatment. (1+2+2+4+1)

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

3. Describe the virulence factors and diseases caused by Helicobacter pylori. .(3+2)
4. Describe the laboratory diagnosis of Pneumococcal pneumonia
5. Mention any 4 sites of Extra pulmonary tuberculosis and their laboratory diagnosis.(2+3)
6. Describe the mechanism of conjugation with examples.(3+2)
7. List the important cytokines and their biological functions.
8. Describe Toxin mediated diseases of Staphylococcus aureus.
9. Describe the Bacterial flagella with reference to structure, types and functions. (2+1+2)
10. Describe the mechanisms of autoimmunity
11. Describe the laboratory diagnosis of gonorrhoea
12. Describe Graft versus host reaction.

SHORT ANSWERS ***10 X 3 = 30 Marks***

13. Name any three Atypical Mycobacteria and the diseases caused.
14. What is the procedure and interpretation of CAMP test?
15. Enumerate 3 infections caused by Klebsiella pneumoniae.
16. Name three chemical sterilants.
17. What is Passive immunity? and give examples.
18. Draw a neat labelled diagram of a gram stained smear prepared from pus of bubonic plague.
19. Name three Selective media with examples
20. Name three Complement deficiency disorders
21. Mention 3 biological activities of endotoxins
22. Name three serological tests done during antenatal period

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MICROBIOLOGY- PAPER 2

Your answer should be specific to the question asked
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LONG ESSAY ***2 X 10 = 20 Marks***

1. Describe the life cycle and pathogenesis of Leishmania donovani and laboratory diagnosis of Kala azar. (3+4+ 3)
2. Classify the family Herpesviridae. Describe the pathogenesis of genital herpes and its laboratotry diagnosis.(3+3+4)

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

3. Describe the life cycle and lab diagnosis of Trichuris trichura.(3+2)
4. Describe the laboratory diagnosis of Malaria.
5. Mention the laboratory diagnosis of Cryptococcal meningitis
6. Describe the microscopic morphology and clinical manifestations of the three Aspergillus species. (3+2)
7. Describe the mode of infection and pathogenesis of Acanthamoeba. (2+3)
8. Describe the laboratory diagnosis of Dermatophytosis and name any two antifungal agents.(4+1)
9. Enumerate the viruses causing diarrhea and their laboratory diagnosis.(2+3)
10. Enumerate the Coxsackie viruses and list the diseases caused by them (2+3)
11. Describe the life cycle of Toxoplasma gondii.
12. Describe the types of cytopathic effects in cell culture.

SHORT ANSWERS ***10 X 3 = 30 Marks***

13. What is visceral larva migrans and name two parasites causing it.
14. What is tropical pulmonary eosinophilia? Which parasite it is associated
15. Classify fungi based on sexual spores.
16. Enumerate three congenital viral infections
17. Mention three differences between Ancylostoma duodenale and Necator americanus.
18. Name three systemic mycotic infections
19. Draw a neat labelled diagram of structure of Influenza virus.
20. Name any three antibiotic susceptibility testing methods.
21. Enumerate three fungi causing mycetoma
22. How is the Bio Medical Waste segregated into colour coded containers

Question Paper Code:RS109

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M.B.B.S Phase-II Degree Examination JAN 2020

Time:3 hours **Max Marks:100**

MICROBIOLOGY- PAPER 1

Your answer should be specific to the question asked Draw neat and labeled diagrams wherever necessary

LONG ESSAY (Answer any 2) ***2 X 10 = 20 Marks***

1. Enumerate the bacteria causing dysentery. Describe the source,mode of transmission, pathogenesis and laboratory diagnosis of bacillary dysentery. (2+1+1+3+3).
2. Explain the principle of ELISA test. Enumerate the different types and its diagnostic applications. (4+3+3)
3. Draw a neat labelled diagram of the bacterial cell. Describe the structure, types, functions and demonstration methods of flagella.(3+2+2+1+2)

SHORT ESSAY (Answer any 10) ***10 X 5 = 50 Marks***

4. Describe the mechanism of resistance, detection methods and treatment options of Methicillin Resistant Staphylococcus aureus. (2+2+1)
5. Describe the lesion, modes of transmission and laboratory diagnosis of cutaneous anthrax. (1+1+3)
6. Name the antigens used in Weil felix test. Describe the principle and interpretation of Weil felix test.(1+2+2)
7. List the important cytokines and their biological functions.
8. Describe the pathogenesis and laboratory diagnosis of Non suppurative complications of Streptococcus pyogenes infections. (3+2)
9. Describe Graft versus host reaction.
10. Explain the principle of Resistance transfer factor with a diagram.(3+2)
11. Mention any 4 sites of Extra pulmonary tuberculosis and their laboratory diagnosis.(2+3)
12. Describe Properties & biological effects of Bacterial toxins. (3+2)
13. Describe the Biological effects of complement
14. Enumerate Aldehydes used in disinfection. Describe the mechanism of action and uses of Aldehydes. (1+2+2)
15. Describe the mechanism of Type IV hypersensitivity reaction with examples.(3+2)

SHORT ANSWERS (No choices) ***10 X 3 = 30 Marks***

16. What is Castaneda biphasic media and its uses.
17. What is Quellung test?
18. Name any three Atypical Mycobacteria and the diseases caused.
19. What is Passive immunity? give examples.
20. Name the causative agent, reservoir host and the vector of Lyme's disease.
21. Name three T cell immunodeficiency disorders
22. Name three Enrichment media with examples
23. What are Heterophile antigens and give two examples.
24. Name three agents causing non gonococcal urethritis.
25. Enumerate 3 infections caused by Klebsiella pneumoniae.

Question Paper Code:RS110

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MICROBIOLOGY- PAPER 2

Your answer should be specific to the question asked
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LONG ESSAY (Answer any 2) ***2 X 10 = 20 Marks***

1. Enumerate the trematodes of medical importance. Describe the life cycle of Schistosoma haematobium and laboratory diagnosis of urinary schistosomiasis. (3+4+3)
2. Enumerate the viruses causing Hepatitis and their mode of transmission. Describe the structure of Hepatitis B virus and laboratory diagnosis of Hepatitis B virus infection. (3+3+4)
3. Classify the family Herpesviridae. Describe the pathogenesis of genital herpes and its laboratotry diagnosis.(3+3+4)

SHORT ESSAY (Answer any 10) ***10 X 5 = 50 Marks***

4. Describe the life cycle and lab diagnosis of Trichuris trichura.(3+2)
5. Describe the pathogenesis and complications of Falciparum malaria. (3+2)
6. Describe the pathogenesis, complications and prevention of Measles. (2+1+2)
7. Describe the life cycle of Toxoplasma gondii.
8. Enumerate the characteristics of Slow viruses and the diseases caused by them in man (2+3)
9. Describe the aetiological agent, lesions caused and laboratory diagnosis of Histoplasmosis.(1+2+2)
10. Describe the mode of infection and pathogenesis of Acanthamoeba. (2+3)
11. Describe the life cycle of Echinococcus granulosus.
12. Describe the pathogenesis and laboratory diagnosis of Rhinosporidiosis. (3+2)
13. Describe the clinical manifestations and laboratory diagnosis of round worm infection. (3+2)
14. Describe the pathogenesis and laboratory diagnosis of occult filariasis. (3+2)
15. Describe the sources, clinical lesions and laboratory diagnosis of Dermatophytes. (1+2+2)

SHORT ANSWERS (No choices) ***10 X 3 = 30 Marks***

16. What is cutaneous larva migrans and name two parasites causing it?
17. What is cysticercus cellulosae and name two common sites where it can be found in man.
18. List three Arboviruses found in India and diseases caused.
19. Define definitive host and intermediate host with appropriate examples
20. Name three nonenveloped DNA viruses.
21. Name three agents producing Mycotoxins and diseases caused by them.
22. Define nosocomial infections. Name four types of Nosocomial infection.
23. Enumerate three DNA oncogenic viruses and the malignancies they produce in man.
24. Name any three antibiotic susceptibility testing methods.
25. Enumerate three infections caused by Adenoviruses.