

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

B.Sc. Allied Health Sciences Second Year Semester-IV

July/August 2019 Examination

B.Sc. Medical Laboratory Technology

Time : 2.30 Hrs.

[Max. Marks : 80]

SUBJECT : MICROBIOLOGY-I

Q.P Code : J4041

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 Clostridia of medical importance. Describe the source, mode of transmission, pathogenesis and laboratory diagnosis of Gas gangrene.
2. Enumerate bacteria causing diarrhea. Describe the source, mode of transmission, clinical manifestations, complications and laboratory diagnosis of *Salmonella typhi*.

SHORT ESSAYS (ANSWER ANY SIX)

6 X 5 = 30 Marks

3. Laboratory diagnosis of Tuberculosis
4. Bacillary dysentery : causative agents & Laboratory diagnosis
5. Toxin mediated diseases of *Staphylococcus aureus*
6. Laboratory diagnosis of pneumococcal meningitis
7. Laboratory diagnosis of urinary tract infections
8. Blood Culture : Conventional & Automated Testing
9. Malignant pustule : bacteria, pathogenesis & laboratory diagnosis
10. Atypical mycobacteria : Classification, clinical manifestations, laboratory diagnosis

SHORT ANSWERS (ANSWER ANY TEN)

10 X 3 = 30 Marks

11. Name 3 anaerobic bacteria
12. Enumerate three diseases caused by Rickettsial species
13. Enumerate 3 important bacteria causing meningitis
14. Mac Fadyean's reaction
15. CAMP test
16. Enumerate 3 bacteria causing sexually transmitted diseases
17. Enumerate 3 bacterial vaccines
18. Transport media with examples
19. Naegler reaction
20. Coagulase test
21. Differences between Pneumococci & *Streptococcus viridians*
22. Draw a neat labelled diagram of gram stain of urethral swab smear from patient with Gonorrhoea

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SUBJECT : MICROBIOLOGY-II

Q.P Code : J4042

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Draw neat labeled diagrams wherever necessary

LONG ESSAY

2 X 10= 20 Marks

1. Describe the life cycle and laboratory diagnosis of Entamoeba histolytica.
2. Describe the life cycle and laboratory diagnosis of Hookworm.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Life cycle of Balantidium coli.
4. Life cycle of Ascaris lumbricoides.
5. Larva migrans.
6. Laboratory diagnosis of Malaria.
7. Life cycle of Taenia solium.
8. Life cycle of Enterobius vermicularis.
9. Life cycle of Wucheraria bancrofti.
10. Trichomonas vaginalis.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Name three Cestodes.
12. Name three opportunistic parasites in AIDS patients.
13. List three parasites found in eye.
14. Enumerate three species of Schistosoma.
15. Name three Free living amoebae.
16. Explain the term viviparous with examples.
17. Name three parasites which enter through faecooral route.
18. Enumerate three stool concentration techniques.
19. Name three haemoflagellates.
20. Name three Bile stained eggs.
21. Name three source of infections of Parasites with examples.
22. Draw a neat labelled diagram of egg of Hymenolepis nana.

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SUBJECT : MICROBIOLOGY-III

Q.P Code : J4043

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary

LONG ESSAY

2 X 10= 20 Marks

1. Enumerate RNA viruses. Describe the morphology, pathogenicity, clinical features, and laboratory diagnosis of Polio virus.
2. Classify fungal infections. Describe the morphological characteristics, cultural characteristic and laboratory diagnosis of agents causing Dermatophytosis.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Rhinosporidiosis.
4. Slide culture technique.
5. Seromarkers of Hepatitis B infection.
6. Subcutaneous Mycosis.
7. Explain the methods of cultivation of viruses.
8. Clinical features and laboratory diagnosis of Dengue.
9. Laboratory diagnosis of Cryptococcus neoformans.
10. Clinical features and laboratory diagnosis of Candidiasis.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. List three types of Fungi.
12. Morphological characteristics of Penicillium.
13. Human papilloma virus.
14. List three opportunistic fungal agents.
15. LPCB wet mount preparation.
16. List three DNA virus.
17. List three viruses causing diarrhoea.
18. Draw a neat labelled diagram of Rabies virus.
19. List three modes of HIV transmission.
20. List three virus causing congenital infections.
21. List three types of cell culture
22. List three virus causing Haemagglutination.

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