

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

**B.Sc. Allied Health Sciences Second Year (Semester-IV)
September 2021 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 Gram positive bacilli. Describe the source, modes of transmission, clinical manifestations, complications and laboratory diagnosis of *Corynebacterium diphtheria*.
2. Enumerate bacteria causing diarrhea. Describe the source, modes of transmission, clinical manifestations, complications and laboratory diagnosis of *Vibrio cholera*.

SHORT ESSAY (ANSWER ANY SIX)

6 X 5 =30 Marks

3. Laboratory diagnosis of Tuberculosis
4. Antibiotic Sensitivity Testing methods
5. Laboratory diagnosis of urinary tract infections
6. Laboratory diagnosis of Syphilis
7. Anaerobic culture methods
8. Mantoux test : procedure, principle & interpretation
9. Polymerase chain reaction : principle, types, applications
10. Atypical mycobacteria: classification, clinical manifestations & laboratory diagnosis

SHORT ANSWERS (ANSWER ANY TEN)

10 X 3 = 30 Marks

11. Name 3 bacterial vaccines
12. Enumerate 3 species of Shigella
13. ASLO test
14. Enumerate 3 oxidase positive bacteria
15. Selective media with examples
16. Enumerate 3 anaerobic bacteria.
17. Enumerate 3 bacteria producing pigments
18. Coagulase test
19. Enumerate the infections caused by *Escherichia coli*
20. Enumerate 3 zoonotic bacterial infections
21. CAMP test
22. Enumerate 3 bacteria which are motile

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SUBJECT : MICROBIOLOGY-II

Q.P Code : J4042

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary

LONG ESSAY:

2x10= 20 Marks

1. Describe the morphological characteristics, pathogenesis and laboratory diagnosis of *Entamoeba histolytica*.
2. Describe the lifecycle and laboratory diagnosis of *Wuchereria bancrofti*.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Stool concentration techniques.
4. Lifecycle of *Leishmania donavani*.
5. Life cycle and clinical features of *Anchylostoma duodenale*.
6. Morphology and laboratory diagnosis of *Balantidium coli*.
7. NIH swab.
8. *Strongyloides stercoralis*.
9. Laboratory diagnosis of Malaria.
10. *Trichomonas vaginalis*.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Name three cestodes.
12. Name three bile stained eggs.
13. Draw a neat labeled diagram of trophozoite of *Giardia lamblia*.
14. Define intermediate host with example.
15. Name three zoonotic parasitic infections.
16. Ring form of *Plasmodium falciparum*.
17. Advantages of thick and thin peripheral blood smear in the diagnosis of malaria.
18. Name three Schistosomes
19. Morphology of oocyst of *Cryptosporidium parvum*.
20. Name three haemoflagellates.
21. Name three free living Amoebae
22. Draw a neat labeled diagram of hydatid cyst.

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[Max. Marks : 80]

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. List the types of Hepatitis viruses. Describe the morphology, mode of transmission, laboratory diagnosis and prophylaxis of Hepatitis B.
2. Define the term and agents causing opportunistic mycosis. Describe the morphological characteristics, cultural characteristic and laboratory diagnosis of *Cryptococcus neoformans*.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Morphological, cultural characteristics and laboratory diagnosis of *Candida albicans*.
4. Morphology, clinical features and prophylaxis of HIV.
5. Etiology and laboratory diagnosis of Dengue.
6. Etiology, laboratory diagnosis and prophylaxis of Japanese encephalitis.
7. Tissue culture technique.
8. Laboratory diagnosis of Aspergillosis.
9. Laboratory diagnosis and prophylaxis of polio.
10. Laboratory diagnosis of agents causing Mycetoma.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Name three fungi with the disease caused by them.
12. Describe the clinical features of Rhinosporidiosis.
13. Composition of SDA.
14. List three genera of Zygomycetes.
15. Name three viral diseases transmitted by mosquito bite.
16. Mention the modes of transmission of HSV I, HSV II and Chicken pox.
17. Prophylaxis of Rabies.
18. Define Bacteriophage.
19. Name the three genera of Dermatophytes.
20. Name three viruses causing diarrhoea.
21. List three routes of inoculation of Embryonated hen's egg.
22. Enumerate three viruses causing malignancy