

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)



**B.Sc. Allied Health Sciences Second Year (Semester-IV)
March 2023 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 cocci. Describe the morphology , cultural characteristics, clinical manifestations of *Staphylococcus aureus*
2. Enumerate bacteria causing diarrhoea. 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 human brucellosis
4. Scrub typhus : causative agent ,pathogenesis & Laboratory diagnosis
5. Malignant pustule : bacteria, pathogenesis & laboratory diagnosis
6. Atypical mycobacteria : Classification, clinical manifestations, laboratory diagnosis
7. Laboratory diagnosis of syphilis
8. Laboratory diagnosis of urinary tract infections
9. DPT vaccine
10. Antibiotic sensitivity testing

SHORT ANSWERS (ANSWER ANY TEN)

10 X 3 = 30 Marks

11. Satellitism
12. Enumerate 3 oxidase positive bacteria
13. Enriched media with examples
14. Enumerate 3 anaerobic bacteria.
15. Blue pus
16. Enumerate 3 clostridium species of medical importance
17. Enumerate 3 important bacteria causing meningitis
18. Mac Fadyean's reaction
19. Enumerate 3 infections caused by Pneumococcus
20. Coagulase test
21. Enumerate the infections caused by E.coli
22. Enumerate 3 zoonotic bacterial infections

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SUBJECT : MICROBIOLOGY-II

Q.P Code : J4042

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Draw neat labeled diagrams wherever necessary

Long essay:

2x10= 20 Marks

1. Describe the life cycle of Entamoeba histolytica
2. Describe the life cycle ,pathogenesis and lab diagnosis of round worm

Long Essay (Answer any six)

6x5= 30 Marks

3. Entero test
4. Erythrocytic life cycle of Plasmodium
5. Laboratory diagnosis of Toxoplasma gondii
6. Life cycle of Balantidium coli
7. General characters of Trematodes
8. Hydatid cyst
9. Larva migrans
10. Life cycle of whip worm

Short answers (Answer any 10)

10x3 = 30 Marks

11. Name 3 blood flukes
12. Name 3 nematodes found in small intestine
13. Draw a neat labelled diagram of tapeworm ova
14. Name 3 opportunistic parasites seen in AIDS patients
15. Cyclops
16. Draw a neat labelled diagram of gametocytes of Plasmodium falciparum
17. What is biological vector? Give examples
18. Name 3 parasites found in peripheral blood smear
19. Explain definitive host with examples
20. Draw neat labelled diagram of trophozoite and cyst of giardia lamblia
21. Name 3 haemoflagellates
22. Name 3 complications of falciparum malaria

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SUBJECT : MICROBIOLOGY-III

Q.P Code : J4043

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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 HIV.
2. Describe the morphological characteristics, cultural characteristic and laboratory diagnosis of *Candida albicans*.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Tissue culture technique for cultivation of viruses.
4. Describe the clinical features and laboratory diagnosis of Aspergillosis.
5. Etiology and laboratory diagnosis of Japanese encephalitis.
6. Describe KOH and LPCB wet mount preparation with examples.
7. Opportunistic Mycosis.
8. Morphological and cultural characteristics of *Cryptococcus neoformans*.
9. Morphology, laboratory diagnosis and prophylaxis of Rabies.
10. Laboratory diagnosis of agents causing Mycetoma.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Name three filamentous fungi.
12. Mention three infections caused by Dermatophytes.
13. Culture media used in mycology.
14. List three DNA viruses.
15. Prophylaxis of Mumps.
16. Mention the source of infection and mode of transmission hepatitis B.
17. Draw a neat labelled diagram of embryonated hen's egg showing various routes of inoculation.
18. List three infections caused by Herpes simplex.
19. List three killed viral vaccine.
20. List three virus transmitted by droplet infection.
21. List three viruses causing Malignancy.
22. List three viruses causing diarrhoea.