



**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH**

**(A DEEMED TO BE UNIVERSITY)**

**B.Sc. Allied Health Sciences Second Year (Semester-IV)**

**September 2022 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, mode of transmission, clinical manifestations, complications and laboratory diagnosis of *Corynebacterium diphtheria*.
2. Enumerate the agents causing Sexually Transmitted infections. Describe the laboratory diagnosis of syphilis

**SHORT ESSAYS (ANSWER ANY SIX )**

**6 X 5 =30 Marks**

3. Toxin mediated diseases of *Staphylococcus aureus*
4. Laboratory diagnosis of Pneumococcal meningitis
5. Laboratory diagnosis of Cholera
6. Blood Culture : Conventional & Automated Testing
7. Widal test: principle & interpretation
8. Non suppurative complications of *Streptococcus pyogenes*
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. Quellung test
12. Satellitism
13. Significant bacteruria
14. Pigments produced by *Pseudomonas aeruginosa*
15. Tuberculin test.
16. Enumerate 3 non sporing anaerobic bacteria
17. Enumerate 3 bacteria causing Urinary tract infections
18. Draw a neat labelled diagram of Albert stain of throat swab smear from patient with diphtheria
19. Enumerate 3 bacteria causing diarrhoea
20. Enumerate 3 bacterial vaccines
21. Transport media with examples
22. Naegler reaction



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**[ Max. Marks : 80]**

**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 life cycle and Laboratory diagnosis of Taenia solium
2. Enumerate the Protozoal parasites causing diarrhea. Describe the life cycle of Giardia lamblia

**SHORT ESSAY\_ (Answer any Six)**

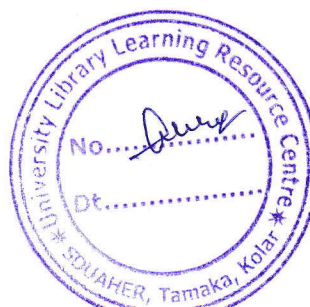
**6 X 5 = 30 Marks**

3. Stool concentration techniques
4. Life cycle of Fasciola hepatica
5. Pathogenesis and Laboratory diagnosis of Extraintestinal amoebiasis
6. Laboratory diagnosis of Malaria
7. Laboratory diagnosis of Kala-azar
8. Hydatid cyst
9. Life cycle of Hook worm
10. Life cycle of Enterobius vermicularis

**SHORT ANSWERS (Answer any Ten)**

**10 X 3 = 30 Marks**

11. Name three Cestodes
12. What is cutaneous larva migrans. Name two parasites causing it.
13. List three parasites found in eye
14. Enumerate three species of Schistosoma
15. Name three Free living amoebae
16. Draw a neat labelled diagram of egg of Ascaris lumbricoides
17. Name three parasites which enter through faecooral route
18. Draw a neat labelled diagram of trophozoite of Trichomonas vaginalis
19. Name three haemoflagellates
20. Name three non-bile stained eggs
21. Name three parasites found in subcutaneous tissue
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. Classify fungal infections. Describe the morphological characteristics and laboratory diagnosis of agents causing Mycetoma
2. Describe the morphology, pathogenesis and laboratory diagnosis of hepatitis B virus infection, Add a note on prophylaxis

**SHORT ESSAY(Answer any Six)**

**6x5=30 Marks**

3. Describe the morphology of Candida albicans and laboratory diagnosis of Candidiasis
4. Polio vaccines
5. Clinical features, laboratory diagnosis and prevention of measles
6. Laboratory diagnosis of Dengue fever
7. Slide culture technique
8. Laboratory diagnosis of Dermatophytes
9. Laboratory diagnosis of HIV infection
10. Viral inclusion bodies.

**SHORT ANSWERS (Answer any ten)**

**10x3=30 Marks**

11. Explain the term Antigenic drift.
12. List three viruses causing congenital infections
13. List three infections caused by herpes simplex virus
14. List three modes of HIV transmission
15. List three viruses causing diarrhea
16. List three vaccines for rabies
17. List three cell lines used for cultivation of viruses
18. List three viruses causing malignancy
19. LPCB mount
20. Name three complications of Varicella zoster infections
21. Name three DNA viruses
22. List three infection caused by Adenoviruses

