

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

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

March 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. Classify Streptococci. Name the suppurative and non suppurative infections caused by Streptococcus pyogenes and describe the laboratory diagnosis of *Streptococcus pyogenes*
2. Enumerate the Clostridia of medical importance. Describe the pathogenesis and prophylaxis of Gas gangrene.

SHORT ESSAYS (ANSWER ANY SIX)

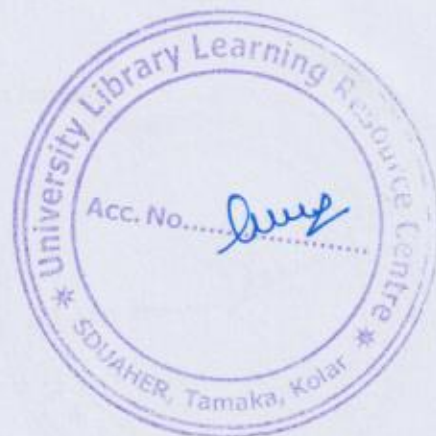
6 X 5 = 30 Marks

3. Laboratory diagnosis of meningococcal meningitis
4. Antibiotic Sensitivity Testing methods
5. Laboratory diagnosis of enteric fever
6. Mantoux test : procedure, principle & interpretation
7. Laboratory diagnosis of syphilis
8. Laboratory diagnosis of urinary tract infections
9. BCG vaccine
10. Laboratory diagnosis of diphtheria

SHORT ANSWERS (ANSWER ANY TEN)

10 X 3 = 30 Marks

11. Classification of atypical mycobacteria
12. Enumerate 3 species of Chlamydia
13. Satellitism
14. Enumerate 3 oxidase positive bacteria
15. Enriched media with examples
16. Enumerate 3 anaerobic bacteria.
17. Enumerate 3 bacteria causing Endocarditis
18. Coagulase test
19. Enumerate 3 infections caused by *Escherichia coli*
20. Enumerate 3 important bacteria causing meningitis
21. Mac Fadyean's reaction
22. CAMP test



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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 hookworm.
2. Describe the life cycle of plasmodium falciparum in man. Enumerate the complications of falciparum malaria.

Short essay questions (Any six)

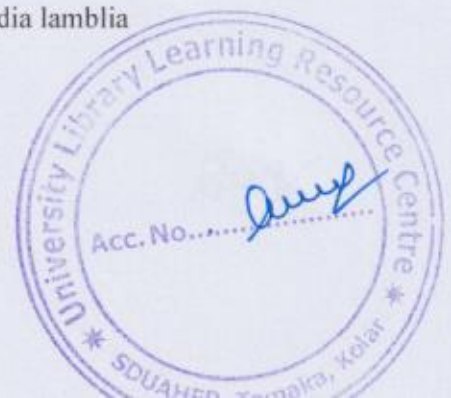
6x5=30 Marks

3. Laboratory diagnosis of kala azar
4. Trichomonas vaginalis
5. Life cycle Wuchereria bancrofti
6. Life cycle of taenia solium
7. Hydatid cyst
8. Life cycle of balantidium coli
9. Stool concentration technique
10. Life cycle of Schistosoma haematobium.

Short Answers questions (Any Ten)

10x3=30 Marks

11. Name 3 non bile stained eggs
12. Name 3 opportunistic parasites in AIDS patients
13. Name three parasites found in the large intestine
14. Name 3 source of infections of parasites with example
15. Draw a neat labelled diagram of the egg of Ascaris lumbricoides
16. What is visceral larva migrans. Give 2 examples
17. Name 3 free living Amoebae
18. Name 3 parasites found in peripheral blood
19. Draw a neat labelled diagram of the cyst and trophozoite of giardia lamblia
20. Name 3 cestodes
21. Name three arthropod vectors in parasitic infection
22. Explain intermediate host with example



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[Max. Marks: 80]

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. Classify fungal infections. Describe the morphological characteristics and laboratory diagnosis of agents causing Mycetoma
2. Describe the morphology, pathogenesis and laboratory diagnosis of HIV infection.

SHORT ESSAY (Answer any Six)

6x5=30 Marks

3. Describe the steps of viral replication
4. Rabies vaccines
5. Describe the Clinical features, laboratory diagnosis and prevention of mumps
6. Describe Laboratory diagnosis of Dengue
7. Describe Slide culture technique
8. Laboratory diagnosis of Candidiasis
9. Laboratory diagnosis of Cryptococcosis
10. Describe the seromarkers of Hepatitis B infection

SHORT ANSWERS (Answer any ten)

10x3=30 Marks

11. Name three RNA viruses
12. Draw a labelled diagram of embryonated hens egg .
13. List three infections caused by Herpes simplex virus
14. List three Arboviral disease.
15. List three viruses causing diarrhea
16. Name three complications of Varicella zoster infection
17. Name three cell lines used for cultivation of viruses
18. Explain the term Antigenic shift
19. KOH mount
20. List three viruses causing congenital infections
21. List three genera of Dermatophytes
22. List three infection caused by Adenoviruses

