

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

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

February 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 bacteria causing diarrhea . Describe the source, mode of transmission, clinical manifestations , complications and laboratory diagnosis of Vibrio cholera.
2. Classify Streptococci. Name the suppurative and non suppurative infections caused by Streptococcus pyogenes and describe the laboratory diagnosis of Streptococcus pyogenes.

SHORT ESSAYS (ANSWER ANY SIX)

6 X 5 =30 Marks

3. Laboratory diagnosis of Corynebacterium diphtheriae.
4. Diarrhogenic Escherichia coli.
5. Anaerobic culture methods.
6. Mantoux test : procedure, principle & interpretation.
7. Polymerase chain reaction : principle, types, applications.
8. Laboratory diagnosis of Tuberculosis.
9. Bacillary dysentery : causative agents & Laboratory diagnosis.
10. Laboratory diagnosis of Meningitis.

SHORT ANSWERS (ANSWER ANY TEN)

10 X 3 = 30 Marks

11. Enumerate 3 zoonotic diseases.
12. Enumerate 3 motile bacteria.
13. Transport media with examples.
14. Satellitism.
15. Enumerate 3 bacteria causing urinary tract infections.
16. Draw a neat labelled diagram of Albert stain of throat swab smear from patient with diphtheria.
17. Enumerate 3 bacteria causing sexually transmitted diseases.
18. Enumerate 3 bacterial vaccines.
19. Significant bacteriuria.
20. CAMP test.
21. Blue pus.
22. Enumerate 3 spirochetes of medical importance.

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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 life cycle and laboratory diagnosis of *Ascaris lumbricoides*
2. Enumerate the cestodes. Describe the life cycle and pathogenesis of *Taenia solium* infection.

Short essay (Answer any six)

6x5= 30 Marks

3. Life cycle of *Enterobius vermicularis*
4. Laboratory diagnosis of Malaria
5. Extraintestinal manifestations of *Entamoeba histolytica*
6. Laboratory diagnosis of Kala azar
7. Hydatid cyst
8. *Trichomonas vaginalis*
9. Stool concentration techniques
10. Laboratory diagnosis of filariasis

Short Answers (Answer any ten)

10x3=30 Marks

11. Define intermediate host & give 3 examples
12. Name 3 sources of infections of parasites with examples
13. Draw a neat labelled diagram of Trophozoite and cyst of *Giardia lamblia*
14. Name 3 free living amoebae
15. Name 3 haemo flagellates
16. Name 3 non bile stained ova
17. Name 3 tapeworms
18. Name 3 insect vectors in transmission of parasitic infections
19. Name 3 opportunistic parasites in AIDS patients
20. Name 2 parasites causing malignancies.
21. Name 3 parasites found in large intestine
22. What are flukes give 2 examples.

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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 the causative agents of opportunistic mycosis. Describe the morphological characteristics, cultural characteristics and laboratory diagnosis of *Cryptococcus neoformans*.
2. Describe the morphology, pathogenesis and laboratory diagnosis of Rabies virus infection. Add a note on prophylaxis.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Classify fungi; write a note on Lactophenol cotton blue wet mount preparation.
4. Dermatophytosis.
5. Laboratory diagnosis of Mycetoma.
6. Enumerate DNA viruses; add a note on prophylaxis of Hepatitis B.
7. Describe the steps of viral replication.
8. Clinical features and laboratory diagnosis of dengue.
9. Laboratory diagnosis of HIV.
10. Clinical features and laboratory diagnosis of Candidiasis.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. List the vaccines for Polio.
12. List three filamentous fungi.
13. List three infections caused by Herpes simplex virus.
14. Draw a neat labelled diagram of Influenza virus
15. List three types of tissue culture.
16. Name three live attenuated vaccine.
17. List three methods to detect viral growth in cell culture.
18. List three modes of Hepatitis B transmission
19. India ink preparation.
20. Define antigenic drift and antigenic shift.
21. Name three viruses causing malignancy.
22. Culture media used in Mycology.