



SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH
(A DEEMED TO BE UNIVERSITY)

B.Sc. Allied Health Sciences Third Year Semester-VI

January 2025 Supplementary Examination

B.Sc. Medical Laboratory Technology

Time: 2.30 Hrs.

Paper-II

[Max. Marks: 80]

Subject: Applied aspects of Microbiology

Q.P Code: J6070

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

Long Essay

2 X 10 = 20 Marks

1. Classify sterilization .Describe in detail the working principle of Hot air oven with a diagram. List the sterilization controls used in the Hot air oven. (4+4+2)
2. Enumerate any four sexually transmitted diseases. Describe the clinical features and laboratory diagnosis of Hepatitis B. (2+4+4)

Short Essay (Answer any Six)

6 X 5 = 30 Marks

3. Describe the laboratory diagnosis of Bacillary dysentery.
4. Describe the laboratory diagnosis of Candidiasis
5. Describe the laboratory diagnosis of Cholera
6. Describe the laboratory diagnosis of Diphtheria
7. Describe the laboratory diagnosis of COVID 19
8. Describe the laboratory diagnosis of Pneumococcal pneumonia
9. Describe the clinical features and laboratory diagnosis of Dengue fever.(3+2)
10. Describe the Anaerobic culture methods.

Short Answers (Answer any Ten)

10 X 3 = 30 Marks

11. Enumerate three acid fast bacilli.
12. Describe the mechanism of action and uses of Alcohol.
13. Enumerate the three bacteria causing zoonotic infection.
14. Enumerate the three bacteria causing Genital ulcer.
15. Enumerate the three steps of Polymerase chain reaction .(PCR)
16. Enumerate the five moments of Hand hygiene.
17. Enumerate the etiological agents causing meningitis.
18. Enumerate the organisms causing Urinary tract infection.
19. Enumerate the organisms causing food borne infections.
20. Enumerate the antibiotic susceptibility testing methods.
21. Laboratory diagnosis of Round worm infection.
22. Describe the lesions caused by *Staphylococcus aureus*.



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Applied aspects of Microbiology

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Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Draw a neat labelled diagram of Autoclave and describe the principle, holding time, sterilization control (3+2+2+3)
2. List the etiological agents causing Bacteremia. Discuss the clinical features and laboratory diagnosis of *Streptococcus Pyogens*. (3+3+4)

SHORT ESSAY

6 X 5 = 30 Marks

3. Describe the Laboratory diagnosis of Dermatophytes.
4. Describe the Laboratory diagnosis of HIV
5. Blood Spill Management
6. Explain Slide culture technique
7. Describe the clinical features of Herpes Simplex Virus
8. Agglutination reaction- principle and applications.

SHORT ANSWERS

10X 3 = 30 Marks

9. Name three opportunistic fungal infections
10. Define enriched media with examples
11. Name three gaseous disinfectants
12. Name three anaerobic culture methods
13. Disadvantages of PCR
14. Draw a neat labelled diagram Of Hot air oven
15. Enumerate the etiological agents causing meningitis
16. Enumerate the organisms causing urinary tract infection
17. Enumerate the Antibiotic susceptibility testing methods
18. Name three mode of transmission of Hepatitis B

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