

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

(A DEEMED TO BE UNIVERSITY)

**B.Sc. Medical Laboratory Technology Third Year Semester-VI  
February 2020 Examination**

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. List the organisms causing Pneumonia. Describe the laboratory diagnosis of *Streptococcus pneumoniae*. (3+2+5)
2. Draw a neat labelled diagram of Autoclave and describe the principle, holding time, sterilization controls. ( 3+2+2+3)

**SHORT ESSAY (Answer any six)**

**6 X 5 = 30 Marks**

3. Biomedical Waste Management
4. Laboratory diagnosis of Tuberculosis
5. Laboratory acquired infections.
6. Antibiotic susceptibility testing
7. Cold sterilization
8. Safe injection practices.
9. ELISA – Principle and its applications.
10. Laboratory diagnosis of HIV

**SHORT ANSWERS (Answer any ten)**

**10 X 3 = 30 Marks**

11. Name 3 diseases transmitted through oro- faecal route.
12. Define Transport media with examples
13. Name 3 gaseous disinfectants
14. Draw a neat labelled diagram of Hot air oven.
15. Name 3 oxidase negative organisms.
16. Name 3 gram positive cocci
17. Name 3 anaerobic culture methods
18. Name 3 organisms causing dysentery
19. Name 3 Opportunistic parasites causing diarrhea.
20. Mention the positive and negative controls used for QC of Blood agar
21. Name 3 capsulated organisms
22. Steps of Hand Hygiene

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**B.Sc. Medical Laboratory Technology Third Year Semester-VI**

**February 2020 Examination**

**Time : 2.30 Hrs.**

**Paper-III**

**[ Max. Marks : 80]**

**Subject: Applied aspects of Pathology**

**Q.P Code : J6080**

*Your answers should be specific to the questions asked.  
Draw neat labeled diagrams wherever necessary.*

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Mention the source of cerebrospinal fluid (CSF) sample, indications and contraindications of Lumbar puncture. Discuss the CSF changes in various types of meningitis.
2. Describe different modes of sample collections, transport, preservation and interpretation of strip method for urine sample.

**SHORT ESSAY (Answer any six)**

**6 X 5 = 30 Marks**

3. Cytology of pleural effusion in benign and malignant conditions
4. Define biomedical waste management. Discuss their safe management of it.
5. Describe collection, preparation and staining of sputum for cytology.
6. Describe Coomb's test.
7. Describe transfusion reactions.
8. Define benzidine test. Describe the procedure.
9. Describe Delayed hypersensitivity reactions with example
10. Describe pathogenesis of type 1 diabetes mellitus.

**SHORT ANSWERS (Answer any ten)**

**10 X 3 = 30 Marks**

11. What are crystals? Name the conditions associated with urinary crystals
12. Mention three hypersensitivity reactions.
13. Mention three antigen antibody mediated diseases.
14. What is Autoimmune disease.
15. List three differences between transudate and exudates
16. Mention three renal function tests.
17. Name the antibodies present in thyroiditis.
18. Name three abnormalities in semen analysis.
19. Name 3 colour coding for biomedical waste management.
20. Name 3 hemolytic anemia.
21. What is serum sickness.
22. Draw neat labeled diagram of Antigen.