



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

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

March / April 2026 Examination

B.Sc. Medical Laboratory Technology (MLT)

Time: 2.30 Hrs.

[Max. Marks: 80]

SUBJECT: PATHOLOGY - I

Q.P Code: K5051

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

I. LONG ESSAY

2X10=20Marks

1. What is frozen section? Describe the cryostat technique. Add a note on uses and care of cryostat.
2. What are the different steps in tissue processing? What is clearing? Enumerate the advantages and disadvantages of clearing agents.

II. SHORT ESSAY

6X5=30Marks

3. Write a note on biomedical waste management.
4. What is the principle and uses of dark ground microscopy
5. Describe in detail the reception of specimen and dispatch of report
6. Give examples for alum haematoxylin. Mention the steps of haematoxylin & eosin staining
7. What is the principle and uses of reticulin staining.
8. What are the important records to be maintained in the laboratory

III. SHORT ANSWERS

3X10=30Marks

9. Name the advantages and three disadvantages of cryostat
10. Name the special stains used for demonstration of a) fungi B) Polysaccharides
c) glycogen
11. Mention the methods for removal of formalin pigment
12. Progressive staining
13. What is honing and stropping
14. How to detect end point of dehydration.
15. List six items required for paraffin section cutting
16. List three stains for collagen
17. Mention different types of mountants of museum
18. Composition of Bouin's fixative

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Subject: Pathology - Paper II

Q.P Code: K5052

*Your answers should be specific to the questions asked.
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I. Long Essay:

2X10=20Marks

1. What are the methods of collection of samples for cytological examinations? Enumerate the differences between benign and malignant cell
2. Describe preparation, principle and staining technique of Papanicolaou stain

II. Short Essay:

6X5=30Marks

3. Describe the morphology of various organisms detected in PAP smears
4. What are the qualities of ideal fixatives? List few cytological fixatives
5. Discuss various techniques in respiratory system sample collections.
6. Discuss various techniques in cell block preparation
7. What is Xanthochromia? List the causes
8. Write the differences between bacterial, viral and tubercular meningitis in CSF

III. Short Answer:

10X3=30Marks

9. Cytology of normal endometrium
10. Mention three body fluids
11. Name three benign conditions of Female genital tract.
12. Draw a neat diagram of respiratory epithelium
13. What is Ayre's spatula
14. Write 3 differences between transudate and exudate effusion
15. Mention three methods of urine collection
16. Charcot leyden crystals.
17. Mention the phases of normal menstrual cycle
18. Name three methods of sample collection in respiratory tract lesions

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[Max. Marks: 80]

SUBJECT: PATHOLOGY - III

Q.P Code: K5053

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

I. LONG ESSAY

2X10=20 Marks

1. Describe criteria for selection of blood donor and method of collecting blood
2. Describe normal histology of breast. Write steps involved in fine needle aspiration of breast lump

II. SHORT ESSAY

6X5=30 Marks

3. Describe various screening methods for infective material in donated blood
4. Cytologic features of colloid goitre
5. Cytologic features of reactive lymphadenitis
6. Describe different methods of bleeding donor
7. Describe steps of culture of bone marrow for genetic analysis
8. Describe the steps of component separation

III. SHORT ANSWERS

10X3=30 Marks

9. Quality control of fresh frozen plasma
10. Describe the characteristics of malignant cells
11. List four complications of transfusion
12. Mention 3 blood grouping system
13. Name three chromosomal genetic disorders
14. What is karyotyping
15. Cyto centrifuge
16. List three acute blood transfusion reaction
17. Name three benign breast region
18. Causes for positive indirect coombs test