



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

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

March 2025 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.

LONG ESSAY

2x10=20Marks

1. What is decalcification. Describe the factors affecting decalcification and various methods of decalcification.
2. Name various haematoxylin used in histopathology . list the steps involved in routine haematoxylin and eosin (H&E) staining.

SHORT ESSAY

6x5=30Marks

3. What is the principle and uses of fluorescence microscopy.
4. Give five faults and their remedies in paraffin wax sectioning.
5. Describe the methods of disposal of laboratory waste
6. What is microphotography . give the applications of it in laboratories.
7. Write about maintenance of important records in the laboratory
8. Briefly describe mounting of museum specimens in general

SHORT ANSWERS

10x3=30Marks

9. Name three mounting media
10. Write the composition of bovine fixative
11. Name the advantages and three disadvantages of cryostat
12. End point of decalcification
13. Three advantages and disadvantages of formalin
14. List three cytoplasmic fixatives
15. What is clearance angle
16. How to take care of microscope
17. What is stropping. Mention two abrasive powders.
18. Name three autofluorescent tissues

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Pathology - II

Q.P Code: K5052

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

Long essay

2X10=20 Marks

1. Mention the source of cerebrospinal fluid (CSF) sample. Discuss CSF cytology in Inflammatory, Benign and Malignant diseases of the central nervous system.
2. What are the methods of collection of samples for cytological examinations? Describe in detail all the steps in preparation and staining of cervical smear.

Short Essay

6X5=30 Marks

3. Mention the type of squamous cells in pap smear with neat labelled diagram.
4. Hormonal cytology
5. Describe the method of staining in May grunwald Giemsa stain.
6. Mention cytological differences between benign and malignant lesions.
7. Define fixative. List types of fixatives used in cytology.
8. What is Xanthochromia? List the causes

Short Answer

10X3=30 Marks

9. Write a short note on liquid based cytology.
10. Charcot leyden crystals.
11. Mention three malignant conditions of gastrointestinal system
12. Mention three techniques of cell block.
13. Write a short note on Shorr's stain
14. Mention three body fluids
15. Name three benign conditions of Female genital tract.
16. What is Exfoliative cytology
17. Mention three conditions which show casts in urine.
18. Mention three disadvantages of Fine Needle Aspiration cytology

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PATHOLOGY - III

Q.P Code: K5053

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2x10=20Marks

1. Describe normal histology of thyroid. write cytological features of colloid goitre.
2. List the type of blood group. Write in detail about the criteria of donor selection.

SHORT ESSAY

6x5=30Marks

3. Role of gel technology in blood bank
4. Adverse donor reactions
5. Anticoagulants used In blood bank
6. Describe method of karyotypic analysis
7. Describe the steps of coombs test
8. Describe the steps of component separation

SHORT ANSWERS

10x3=30Marks

9. Eneumerate various cytological fixatives
10. What is H antigen? what is its significance
11. Name the samples collected in transfusion reaction
12. Define primary antibody in IHC
13. Name three indications for FNAC
14. List three advantages of slide method of blood grouping
15. Causes for positive direct comb test
16. Name three chromosomal genetic disorders
17. What is Landsteiner's law
18. Name three vacutainers with its uses.

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