



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

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

September 2022 Examination

B.Sc. Medical Laboratory Technology (MLT)

Time: 2.30 Hrs.

[Max. Marks : 80]

SUBJECT: PATHOLOGY - I

Q.P Code : J5051

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2X10=20Marks

1. Write different classification of fixatives. Add a note on formalin fixative. Mention two methods of removal of formalin pigment from tissue section.
2. What is frozen section? Describe the cryostat technique. Add a note on uses and care of cryostat.

SHORT ESSAY (Answer any six)

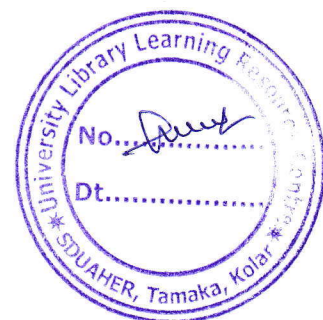
6X5=30Marks

3. Describe the principal and uses of Periodic acid Schiff stain
4. Describe the principal and uses of electron microscopy
5. Write a note on biomedical waste management.
6. What is dehydration? Write in detail about dehydrating agents.
7. What is microphotography? Mention its applications in laboratories.
8. What are the types of microtomes? Mention different types of microtome knives.
9. What is mordant? Give examples of hematoxylin with mordant.
10. What is de-calcification? List the factors affecting decalcification and methods to detect end point decalcification.

SHORT ANSWERS (Answer any Ten)

10X3=30Marks

- 11 Name three mounting media.
12. Moulds for embedding
13. Two processes of haematoxylin ripening?
14. What is honing and stropping?
15. Write the composition of Bouins fixative
16. What are the uses of reticulin stain?
17. List three uses of computer in pathology.
18. What are the records to be maintained in histopathology?
19. Causes and remedy for scores or lines running vertically in tissue sections.
20. What is serial sections? Name an indication for serial sectioning.
21. List 3 uses of PAS stain.
22. Special stains to demonstrate a) Amyloid b) Nervous tissue c) connective tissue.





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SUBJECT: PATHOLOGY - II

Q.P Code : J5052

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2X10=20Marks

1. What are the methods of collection of samples for cytological examinations? Describe in detail cytological difference between benign and malignant lesions.
2. Mention the source of cerebrospinal fluid (CSF) sample, indications and contraindications of Lumbar puncture. Discuss the CSF changes in various types of meningitis.

SHORT ESSAY (Answer any six)

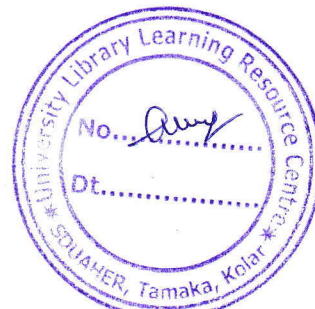
6X5=30Marks

3. Describe the principle, procedure and interpretation of ZN stain.
4. Describe the morphology of various organisms detected in PAP smears
5. What are the qualities of ideal fixatives? List few cytological fixatives
6. Discuss various techniques in respiratory system sample collections.
7. Describe microscopy of urinary sediment. Write a note on urinary casts
8. What is Xanthochromia? List the causes
9. Discuss various techniques in cell block preparation.
10. Describe the principle and staining technique of Papinicolau stain.

SHORT ANSWERS (Answer any Ten)

10X3=30Marks

11. Cytology of normal endometrium
12. Mention three body fluids
13. Name three benign conditions of Female genital tract.
14. Draw a neat diagram of respiratory epithelium
15. What is Ayre's spatula
16. What is Cytospray
17. Name the parts of gastrointestinal system.
18. Mention 3 advantages of Fine Needle Aspiration cytology
19. Mention three methods of urine collection
20. What are Charcot leyden crystals.
21. Mention the phases of normal menstrual cycle
22. Name three methods of sample collection in respiratory tract lesions





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SUBJECT: PATHOLOGY - III

Q.P Code : J5053

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Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2X10=20Marks

1. Describe normal histology of breast. Write steps involved in fine needle aspiration of breast lump.
2. List types of blood group. Write in details about the criteria of donor selection.

SHORT ESSAY (Answer any six)

6X5=30Marks

3. Cytologic features of pleomorphic adenoma
4. Sex chromatin
5. Describe direct coombs test in detail
6. Describe steps of culture of bone marrow cells for genetic analysis
7. Describe cytological features of reactive lymphadenitis
8. Describe normal cytology of thyroid.
9. Describe steps of component separation
10. Describe uses of cytocentrifugation

SHORT ANSWERS (Answer any Ten)

10X3=30Marks

11. Describe various vacutainers used in haematology
12. Mention three types of transfusion reaction
13. If patient blood group is 'A' positive., list the antigen and antibody in his blood
14. Define primary antibody in IHC
15. Causes for positive indirect comb test
16. List three banding technique in chromosome
17. List three disadvantage of tube method of blood grouping
18. Name three transfusion transmitted disease
19. Name three benign breast lesion
20. In Xq22.9, which each alphabet and member represent.
21. Name three transfusion transmitted disease
22. Name three indication for fnac

