

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

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

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

SHORT ESSAY (Answer any six)

6X5=30Marks

3. Mention different types of microtome. What are different types of microtome knives?
4. What is clearing? Write in detail about clearing agents.
5. Describe briefly mounting of museum specimens in general.
6. What is microphotography? Mention its applications.
7. Describe the principle and uses of Periodic acid Schiff stain.
8. Write different types of classification of fixatives. Mention the factors affecting fixation.
9. Write a note on disposal of different types of wastes.
10. What is honing? Mention different types of hones.

SHORT ANSWERS (Answer any Ten)

10X3=30Marks

11. Name three uses electron microscopy.
12. What is stropping? Mention two abrasive powders.
13. Name three embedding media used for electron microscope tissue preparation.
14. What is clearance angle?
15. Composition of Bouin's fixative
16. List three advantages and disadvantages of formalin.
17. Mention different types of mountants.
18. Mention the uses and care of microscope.
19. List three uses of polarized microscope.
20. Name two fixatives used in cytology?
21. What are the uses of Masson's trichrome stain?
22. What are the records to be maintained in histopathology?



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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. Describe preparation, principle and staining technique of Papinicolou stain.
2. Mention the source of cerebrospinal fluid (CSF) sample. Discuss CSF cytology in Inflammatory, Benign and Malignant diseases of the central nervous system.

SHORT ESSAY (Answer any six)

6X5=30Marks

3. Write about Acid fast stain for sputum, method and interpretation.
4. Hormonal cytology
5. Cytology of Pleural effusion in benign and malignant conditions.
6. Write the uses of Fine Needle Aspiration cytology
7. Describe the cytological differences between benign and malignant lesions.
8. Discuss the Preservation used in fluid cytology
9. Write about Histology of Respiratory tract.
10. Describe the method of staining in May grunwald Giemsa stain.

SHORT ANSWERS (Answer any Ten)

10X3=30Marks

11. Name the parts of Uterus.
12. Name three benign conditions of Female genital tract.
13. Draw a neat diagram of respiratory epithelium
14. What are Charcot leyden crystals.
15. Mention three malignant conditions of gastrointestinal system.
16. Mention three cytological differences between benign and malignant lesions.
17. Mention three disadvantages of Fine Needle Aspiration cytology
18. Mention three techniques of cell block.
19. Write about Cytology of normal endometrium
20. Mention three body fluids
21. Principle of Giemsa stain
22. What are casts?



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[Max. Marks: 80]

SUBJECT: PATHOLOGY - III

Q.P Code: J5053

*Your answers should be specific to the questions asked.
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 components. Write in details about the method of separation of blood component.

SHORT ESSAY (Answer any six)

6X5=30Marks

3. Cytologic features of colloid goiter
4. Describe steps of comb test
5. Describe steps of IHC procedure
6. Write in details about the criteria of donor selection
7. Classify transfusion reaction. Mention the clinical features of transfusion reaction
8. Describe various screening methods for infective material in donated blood
9. Bombay blood group
10. Describe method of karyotypic analysis

SHORT ANSWERS (Answer any Ten)

10X3=30Marks

11. List three indication for FNAC
12. Mention 3 blood group system.
13. If patient blood group is 'B' positive., list the antigen and antibody in his blood
14. Cytocentrifuge
15. Sex chromatin
16. List three banding technique in chromosome
17. List three acute blood transfusion reaction
18. Name three transfusion transmitted disease
19. Name three chromosomal genetic disorders
20. In Xp10, which each alphabet and member represent.
21. Name three samples collected in transfusion reaction
22. What is karyotyping

