

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



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

September – 2023 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. What is decalcification? Describe the factors affecting decalcification and various methods of decalcification.
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 different types of fixatives.
4. What is regressive staining? Mention the steps of H&E staining.
5. How are the following material disposed from the laboratory: Sharps, contaminated materials and anatomical wastes?
6. Mention different steps in tissue processing. Add a note on embedding agents.
7. What is the principle and uses of Dark ground microscopy?
8. Describe briefly the mountants used in museum.
9. Describe the principle and uses of Periodic acid Schiff stain.
10. Write a note on automatic slide stainer.

SHORT ANSWERS (Answer any Ten)

10X3=30Marks

- 11 Name three special stains used for connective tissue.
12. What are the causes for thick and thin sections?
13. What is blueing? Name two blueing agents.
14. Name three clearing agents.
15. Why is copper sulphate placed in final alcohol?
16. What are the three different types of hones?
17. List three AFB positive organisms.
18. What is filing of slides.
19. Name three mountants.
20. Mention uses and care of microscope
21. Name three agents used for ripening of haematoxylin.
22. What is honing & stropping?



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SUBJECT: PATHOLOGY - II

Q.P Code : J5052

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LONG ESSAY

2 X 10 = 20 Marks

1. Methods of collection of samples and preparation of cell block
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)

6X 5 = 30 Marks

3. Write the uses of Fine Needle Aspiration cytology
4. Describe cytological features of Malignancy.
5. Describe collection, preparation and staining of sputum for cytology
6. Fixatives used in cytology
7. Discuss the significance of Hormonal cytology.
8. Describe cytological features of Radiation induced changes on PAP smears.
9. Principle and preparation of PAP stain.
10. Discuss in detail the cytology of cervical tissue.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Mention the phases of normal menstrual cycle
12. Name three methods of sample collection in respiratory tract lesions
13. List three differences between transudate and exudates.
14. Mention three body fluids
15. Principle of Giemsa stain
16. Definition of Exfoliative cytology.
17. What are crystals? Name the conditions associated with urinary crystals.
18. Name the parts of gastrointestinal system.
19. Name three benign conditions of Female genital tract.
20. Name three techniques of collection of specimen for cervical cytology study.
21. Draw a neat labeled diagram of malignant cell.
22. What is Shorr's stain

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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 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. List three indication for FNAC
12. What is landsteiners law.
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. Name three vacutainers with its uses