



SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

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

March 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

2 X 10 = 20 Marks

1. What are the different steps in tissue processing? Describe the schedule of processing in an automatic tissue processor.
2. Name various Hematoxylin used in histopathology. List the steps involved in routine haematoxylin and eosin (H&E) staining.

SHORT ESSAY (Answer any Six)

6X 5 = 30 Marks

3. Give five faults and their remedies in paraffin wax sectioning.
4. Describe in detail the reception of specimen and dispatch of reports.
5. Describe briefly mounting of museum specimens in general.
6. What is decalcification? Mention the factors affecting decalcification.
7. What is the principle and uses of fluorescence microscopy?
8. What are the different types of knives? Mention different angles of the steel knife.
9. Give five applications of computers in pathology laboratory.
10. Describe the principle and uses of Periodic acid Schiff stain.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Name three cytoplasmic fixatives.
12. Mention the methods for removal of formalin pigment.
13. Name three advantages and three disadvantages of cryostat.
14. Name special stains used for demonstration of a)fungi d) fat c) glycogen
15. List the resultant colours obtained on Van gieson's stain.
16. How to detect end point of dehydration?
17. List three stains for collagen.
18. List three uses of computers in pathology
19. End point decalcification.
20. Three advantages and disadvantages of formalin.
21. Uses of microphotography
22. Which biomedical waste is disposed in yellow bag?

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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

2 X 10 = 20 Marks

1. What is a cell? Describe the normal structure and functions of its components. What are the cytologic criteria of malignancy?
2. Describe preparation, principle and staining technique of Papinicolou stain.

SHORT ESSAY (Answer any Six)

6X 5 = 30 Marks

3. Describe collection, preparation and staining of sputum for cytology.
4. What is Xanthochromia? List the causes.
5. Discuss the significance of Hormonal cytology.
6. Describe cytological features of Radiation induced changes on PAP smears.
7. Write the uses of Fine Needle Aspiration cytology
8. Discuss in detail the cytology of Endometrium and Ovary.
9. Cytology of CSF in Tuberculous meningitis
10. Fixatives used in cytology

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Name three organisms seen in Pap smear
12. Name three special stains used in FNAC
13. Draw neat labeled diagram of cervical histology
14. List three differences between transudate and exudates.
15. Mention three body fluids
16. Principle of Giemsa stain
17. Name three techniques of collection of specimen for cervical cytology study.
18. Name the different parts of gastrointestinal system
19. List three uses of Urine microscopy
20. What is Cytospray
21. Mention the phases of normal menstrual cycle
22. Name three methods of sample collection in respiratory tract lesions

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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. Discuss types of autologous transfusion and their benefits.
2. Describe criteria for selection of blood donor and method of collecting blood

SHORT ESSAY (Answer any six)

6X5=30Marks

3. Role of Gel technology in blood bank
4. Platelet concentrates
5. Anticoagulants used in blood bank
6. Role of HLA typing in transfusion
7. Adverse donor reactions
8. Cytological Stains
9. Karyotyping
10. Classify chromosomes

SHORT ANSWERS (Answer any Ten)

10X3=30Marks

11. List for common sites of FNAC
12. List four transfusion transmitted disease
13. What is Barr body? How is it identified?
14. Quality control of Fresh Frozen Plasma
15. Describe the characteristics of malignant cells
16. What is coombs test? Give two indications
17. List four complications of transfusion
18. What is H antigen? What is its significance?
19. What is Du test? What is its significance
20. Enumerate various cytological fixatives
21. List three blood components
22. Indications of Electron microscopy
