

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

B.Sc. Allied Health Sciences Second Year (Semester-V)
February 2019 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 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)

6X5=30Marks

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)

10X3=30Marks

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

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Draw neat labeled diagrams wherever necessary.*

LONG ESSAY

2X10=20Marks

1. Describe preparation, principle and staining technique of Papinicolou stain.
2. Methods of collection of samples and preparation of cell block

SHORT ESSAY (Answer any six)

6X5=30Marks

3. Write the uses of Fine Needle Aspiration cytology
4. Describe cytological features of Malignancy
5. Discuss the Acid fast stain for sputum along procedure and interpretation
6. Discuss CSF examination in various meningitis
7. Discuss Cytology of pleural effusion in benign and malignant conditions
8. Discuss various organisms detected in PAP smears
9. What are the qualities of ideal fixatives? List few cytological fixatives
10. Describe Cytology in ovarian and endometrial lesions.

SHORT ANSWERS (Answer any Ten)

10X3=30Marks

11. List three differences between transudate and exudates.
12. Mention three body fluids
13. What is the Principle of Giemsa stain
14. What are casts? Name the conditions in which it is present in urine.
15. Name the parts of Uterus.
16. Name three benign conditions of Female genital tract.
17. Draw a neat diagram of respiratory epithelium
18. What are Charcot leyden crystals.
19. Mention three collection techniques for respiratory sample collection
20. List three uses of Urine microscopy
21. What is Ayre's spatula
22. What is Cytospray

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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 thyroid. Write cytological features of colloid goiter.
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. 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.