

B.Sc. Medical Laboratory Technology Third Year Semester-V
February 2020 Examination

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 frozen section? Describe the cryostat technique. Add a note on uses and care of cryostat.
2. What are the different steps in tissue processing? What is clearing? Enumerate the advantages and disadvantages of clearing agents.

SHORT ESSAY (Answer any six)

6X5=30Marks

3. Give examples for alum hematoxylin. Mention the steps in Hematoxylin and eosin staining.
4. What is decalcification? Mention different decalcifying agents and methods to detect end point of decalcification.
5. What is the principle and uses of dark ground microscopy?
6. Give five faults and their remedies in paraffin sectioning on microtome.
7. What is the principle and uses of reticulin staining?
8. What is microphotography ? Give its applications of it in laboratories.
9. Describe the methods of disposal of laboratory waste
10. Write about maintenance of important records in the laboratory.

SHORT ANSWERS (Answer any Ten)

10X3=30Marks

11. Name three uses of electron microscopy.
12. What is stropping? Mention two abrasive powders.
13. Mention six PAS positive substances.
14. Mention different types of Eosins.
15. Composition of Bouin's fixative
16. Mention different methods of removal of formalin pigment
17. Mention different types of mountants used in museum.
18. Name three special stains used for staining connective tissue.
19. Name one special stain used for a) Amyloid b) Glycogen.
20. Why is anhydrous copper sulphate placed in final alcohol?
21. What is clearance angle?
22. How to take care of microscope?

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Time : 2.30 Hrs.

[Max. Marks : 80]

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 all the steps in preparation and staining of cervical smear.
2. Describe preparation, principle and staining technique of Papinicolau stain.

SHORT ESSAY (Answer any six)

6X5=30Marks

3. Discuss various techniques in respiratory system sample collections.
4. Describe cytological features of Radiation induced changes on PAP smears.
5. Discuss different methods of cell block preparation.
6. Describe the changes of CSF in Tuberculous meningitis.
7. Describe the Fixatives used in cytology.
8. What is Xanthochromia? List the causes.
9. Discuss in detail the cytology of Gastrointestinal system.
10. Describe microscopy of urinary sediments. Write a note on urinary casts.

SHORT ANSWERS (Answer any Ten)

10X3=30Marks

11. Mention three body fluids.
12. Principle of Geimsa stain.
13. Name three cytological stains.
14. Mention the phases of normal menstrual cycle.
15. List three differences between transudate and exudates.
16. Name three benign conditions of Female genital tract.
17. List three differences between benign and malignant cells.
18. Name three special stains used in FNAC.
19. Draw a neat labeled diagram of respiratory epithelium.
20. Name three organisms seen in cervical pap smear.
21. Shorr stain .
22. Definition of Exfoliative cytology.

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

B.Sc. Medical Laboratory Technology Third Year Semester-V
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Time : 2.30 Hrs.

[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

2 X 10 = 20Marks

1. Describe steps of culture of bone marrow for genetic analysis. Mention 6 uses of genetic analysis.
2. List types of blood components. Write in details about the method of separation of blood component.

SHORT ESSAY (Answer any six)

6 X 5 = 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)

10 X 3 = 30Marks

11. Describe various vacutainers used in haematology.
12. Mention three types of transfusion reaction.
13. If patient blood group is 'O' positive., list the antigen and antibody in his blood.
14. Define Secondary antibody in IHC.
15. Causes for positive Direct comb test.
16. List three banding technique in chromosome.
17. List three advantage of slide method of blood grouping.
18. Name three transfusion transmitted disease.
19. Name three chromosomal genetic disorders.
20. In Xq22.9, which each alphabet and member represent.
21. Name three blood grouping system.
22. What is aneuploidy.

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