

THE APOLLO UNIVERSITY
Saketa, Chittoor, AP
AHS - V Semester End Examination, June-2024
PAPER-III
MLTT 3503 - HISTOPATHOLOGY, CYTOPATHOLOGY
HAEMATOPATHOLOGY AND MUSEUM TECHNIQUES

Time: 3 hours

Max. Marks: 60

Section –A (10x2=20 marks)

Answer all Questions

1. Write the classification of mounting media.
2. Add a note working principle of polarising microscope.
3. Add a note on principles of immunocytochemistry.
4. What are the uses of frozen section?
5. Mention the Principle of alcian blue stain.
6. Write a note on uses of Van Gieson.
7. List out indications of flow cytometry.
8. What do you mean by tissue banking?
9. What is the role of museums in pathology?
10. What is fixation of specimen?

Section –B (5X8=40 marks)

Answer all Questions either A or B with essay type answers

11. A) List out the types of microscopes and describe the phase contrast microscope and fluorescent microscope.

OR

B) Describe the microtomy and add a note on types of microtome knives. List out its advantages and disadvantages.

12. A) Describe the principle and procedure of PAP staining.

OR

B) What is freezing microtome? Add a note on methods of cutting frozen section.

Cont....

13. A) Describe principle, uses and preparation of solution required for PAS stain and mucicarmine.

OR

B) Describe principle, uses and preparation of solution required for Phosphotungstic acid haematoxylin (PTAH).

14. A) Describe principles of flow cytometry, sample preparation and processing.

OR

B) List out Chromosomal Anomalies. Add a note on duplication of Chromosome, inversion and translocation of chromosome.

15. A) Describe the process of mounting of museum specimen and the methods of colour maintenance in the museum specimen.

OR

B) Add a note on Kaiserling Preparation methods and the composition of Kaiserling fluid-I, II, III.
