

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0523]

MAY 2023

Sub. Code: 1264

**M.Sc. MEDICAL LABORATORY TECHNOLOGY
SECOND YEAR (Candidates admitted from 2020-2021 onwards)
PAPER IV – TECHNIQUES IN HISTOPATHOLOGY AND CYTOLOGY**

Q.P. Code: 281264

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. Define Fixation. Classify and elaborate on the aims and function of an ideal fixative. Write a note on Automated Tissue Processor.
2. What is microtomy? What are the different types of microtomes available and their uses?

II. Write Short Notes on:

(10 x 6 = 60)

1. Write a note on Immunohistochemistry.
2. What is the principle of fluorescent microscopy? Mention any two applications.
3. Explain liquid based cytology.
4. Write in detail the procedure of PAS stain and mention its use.
5. Name any two stains for microorganisms and explain the procedure of anyone.
6. Write a note on electron microscopy.
7. Write a note on different types of haematoxylin stains.
8. Honing and different types of hones employed and honing technique.
9. Write a note on light microscopy.
10. Preparation and use of albuminized and starched slides.
