

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

[AHS 0122]

**JANUARY 2022  
(OCTOBER 2021 EXAM SESSION)**

**Sub. Code: 1264**

**M.Sc. MEDICAL LABORATORY TECHNOLOGY  
SECOND YEAR (Regulation 2011-2012 & from 2013-2014 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. Explain the principle of Florescent microscopy and its application in Histopathology.
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. Various Decalcifying agents.
2. Microwaves and Histopathology.
3. What is the use and composition of Bouin's Fixative.
4. Write the principle, procedure and use of Grocott-Gomori Methanamine Silver Stain (GMS).
5. What do you mean by Antigen retrieval.
6. What are the Stains for melanin. Write the procedure for any one stain.
7. What are the Romanosky's stains and what is their common principle.
8. Immunohistochemistry Principle and uses.
9. Color restoration of museum specimens.
10. Polarising Microscope – Principle and uses in histopathology.

\*\*\*\*\*