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

[AHS 0423]

APRIL 2023

Sub. Code: 5016

B.Sc. MEDICAL LABORATORY TECHNOLOGY SECOND YEAR (Regulations 2010-2011 & 2018-2019 onwards) PAPER I – HISTOPATHOLOGY AND CYTOLOGY TECHNIQUES *Q.P. Code: 725016*

Tin	ne: Three hours	Answer ALL Questions	Maximum: 100 Marks
I. Elaborate on:		$(3 \times 10 = 30)$	
2.		utomation in Histopathology. nmunohistochemistry. Cytopathology.	
II. Write notes on:			(8 x 5 = 40)
 MGG stain. Stain for melanin pigment. Methods of Decalcification. Agents used in dehydration. Explain the faults and remedies during section cutting through Microtome. Stain for Amyloid. What are the different types of embedding media? Name the commonly used embedding media, its advantages and disadvantages. Stain for connective tissues. 			
III. Short answers on:			(10 x 3 = 30)
1.	What is ultra Micro	tome?	

- 1. What is unit a where $\tilde{\alpha}$
- 2. Cryostat.
- 3. Name four Paraffin wax additives.
- 4. Name the two processes of Haematoxylin ripening. List the chemicals used for ripening.
- 5. Spray fixatives.
- 6. What are the two ways of Smearing?
- 7. Endocervical brush.
- 8. Define Polymerase Chain Reaction.
- 9. Composition of Kaiserling solution I, II, III.
- 10. Uses of Mucin stain.
