Lepran orpy.

UNIVERSITY OF JAFFNA, SRI LANKA

BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCES

FOURTH YEAR FIRST SEMESTER EXAMINATION-JULY 2013

MLSCH 4101 CLINICAL HISTOTECHNOLOGY

PAPER II

DATE: 02.08.2013 TIME: 2½ Hours

ANSWER ALL EIGHT QUESTIONS

1. 1.1 List the factors affecting fixation. (30 marks) 1.2 Briefly describe how these factors affecting fixation. (70 marks) 2. Write short notes on following. 2.1 Knife sharpening. (30 marks) 2.2 Freezing microtome. (30 marks) 2.3 Vacuum embedding. (40 marks) 3. 3.1 List 3 main steps in tissue processing observed in automated tissue processor. (15 marks) 3.2 Briefly describe how you achieve these steps in automated tissue processor giving examples of reagents used in each step. (60 marks) 3.3 List the advantages of automated tissue processor. (25 marks) 4. 4.1 Briefly describe the factors that should be considered in transporting histology (50 marks) specimens to Histopathology laboratory. 4.2 Describe your duties as the MLT in the sample receiving counter. (50 marks) Page 1

5.				
	5.1	What is the mechanism of action in the commonly used fixative formalin in tissue		
		fixation?	(20 marks)	
	5.2	List the advantages and disadvantages of formalin fixative.	(40 marks)	
	5.3	List the properties of a good fixative.	(40 marks)	
6.				
	6.1	Describe briefly the principle steps in section cutting and getting sections in	cribe briefly the principle steps in section cutting and getting sections in floating	
		water bath.	(60 marks)	
	6.2	Explain the terms "chattering" and "scores" and mention how these artifacts are		
		produced.	(40 marks)	
7.				
	7.1	List 5 fluid specimens received in the Histopathology laboratory for cytology.		
			(20 marks)	
	7.2	What are your duties as the assisting MLT in fine needle aspiration cytology (FNAC)		
		procedure. (Detailed description of staining procedures is not required.)	(40 marks)	
	7.3	What will you do if you accidently expose to a needle prick injury while assisting in		
		FNAC procedure.	(40 marks)	
8.				
	8.1	What are the 3 main types of dyes used in staining procedures?	(15 marks)	
	8.2	Briefly describe them giving one example to each category.	(60 marks)	
	8.3	Mention the special staining methods used to demonstrate various microorganisms		
		and give expected results in each of them.	(25 marks)	