CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

SECOND YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN BIOMEDICAL SCIENCE AND TECHNOLOGY

BMET 213: MEDICAL HISTOLOGY

STREAMS: TIME: 2 HOURS

DAY/DATE: THURSDAY 13/12/2018 8.30 A.M – 10.30 A.M

INSTRUCTIONS:

• Answer question **ONE** (**COMPULSORY**) and any other **TWO** questions.

- Sketch diagrams may be used whenever they may help to illustrate your answer.
- Do not write anything on the question paper.
- This is a closed book exam. No reference materials are allowed in the examination room.
- There will be **No** use of mobile phones or any other unauthorized materials.
- Write your answers legibly and use your time wisely.

Question One (30 marks)

- 1. Discuss various criteria for a good fixative to use in a histology laboratory (8 marks).
- 2. Explain decalcification in tissue processing (2 marks).
- 3. Discuss four methods of determining the end point of decalcification (8 marks).
- 4. Describe impregnation as applied in medical histology and give examples of impregnating agents (4 marks).
- 5. Discuss some of the faults and their causes in sectioning of tissues in a medical histology laboratory (8 marks)

Question Two (20 marks)

1. In order to visualize various parts of tissues in a medical histology laboratory a stain must be used. Discuss the criteria of a good routine nuclear stain (3 marks).

BMET 213

		b. Discuss the criteria for a good mounting media for use in a medical laboratory Or Discuss the major characteristics of a malignant cell as observed under a micro	narks).
Que	esti	tion Three (20 marks)	
	1.	Discuss the principle and the procedure for Harris' haematoxylin and Eosin sta	
	3.	Discuss the four major types of tissue found in human body Explain why pure formalin is not recommended while fixing tissues (2 m	-
		marks).	(6
		 a. Progressive staining b. Decolourization c. Differentiation d. Counter stains e. Mordants f. Accentuators 	
Que	esti	tion Four (20 marks)	
	1.	Discuss the principle and procedure for Papanicolaou staining technique as	
	2.	, Ci	narks). narks).
	3.	Briefly explain how the artifacts formed while fixing a tissue with 10% formals be removed (2 m	dehyde car narks)
,	4.	Explain gynaecological cytology and briefly explain its role in medical histolog	gy (7
		marks).	