B.Sc. IN MEDICAL LABORATORY TECHNOLOGY (BMLT)

Term-End Examination June, 2014

BAHI-009 : APPLIED HISTOPATHOLOGY AND CYTOLOGY

Time: 3 hours			Maximum Marks: 70
Note: Attempt all questions as indicated below.			
	•	-	PART - A
1.	(a)	Fill	up the blanks appropriately: $1x5=5$
		(i)	Oil Red 'O' is mixed with for fat staining procedure.
		(ii)	In perl's method of iron staining pottasium ferrocyanide is mixed with acid in staining procedure.
		(iii)	PAS -Alcian blue method is commonly use to stain
		(iv)	Congo-Red and methyl violet are common stains to demonstrate
		(v)	Verhoeff's is specific stain to demonstrate
	(b)		wer True (T) or False (F) of the wing: Bone lesions are normally studied by frozen sections for early diagnosis.

- (ii) Elastic fibres stained by Van Gieson technique stains fibres pink, nuclei black, and other tissue violet.
- (iii) Haemosoidrin stains blue in Perl's Prussian blue method.
- (iv) Karyotyping is a routine procedure for detection of cytogenetic abnormalities
- (v) In embedding a tissue processing procedure needs preferably celloidin in comparission to paraffine in Histo Kinelt.

PART - B

- 2. Answer in brief any two of the following: 5x2=10
 - (a) Applications of immuno histochemistry.
 - (b) Quality control parameters in histopathology.
 - (c) FNAC applications : Technical Procedures

PART - C

- 3. Answer any four of the following: 5x4=20
 - (a) PTAH method for connective tissue staining
 - (b) Stains for pigment
 - (c) Osmic acid stain
 - (d) Vonkossa's silver nitrate
 - (e) PAS stain

PART - D

- **4.** Answer **any three** of the following :
 - (a) What is amyloid? Describe the principle and procedure of staining of amyloid by Congo Red staining. 3+4+3=10
 - (b) What are advantages of Frozen section?

 Describe method and procedure in brief for

 Cryostat sections. 3+4+3=10

- (c) Give an account of restoration of museum specimen. Describe procedures of fixation, preservation and presentation of specimen for museum.

 3+4+3=10
- (d) Enumerate stains for mucosubstances and carbohydrate. Describe complete procedure of Alcian blue method for staining mucosubstances. 3+2+5=10