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**B.Sc. IN MEDICAL LABORATORY
TECHNOLOGY (BMLT)**

Term-End Examination

June, 2015

**BAHI-009 : APPLIED HISTOPATHOLOGY AND
CYTOLOGY**

Time : 3 hours

Maximum Marks : 70

Note : Answer all questions as indicated below.

PART - A

1. (a) Fill up the blanks appropriately : 1x5=5
- (i) PAS stains _____.
 - (ii) Amyloid substances are better stain with _____ and to be viewed under Polarised microscopy.
 - (iii) Perl's Prussian method is for staining _____.
 - (iv) Oil red O stains all groups of _____ in the tissues.
 - (v) Calcium is stained by _____ method.
- (b) Attempt all questions : 1x5=5
- (i) Harris Weigert method stains for calcium salts in tissues.
 - (ii) Verhoeff's method stains elastic fibres.
 - (iii) Pre analytical check up of quality control in histopathology is mandatory in SOP of quality assessment.
 - (iv) Mixture of Sudan III and Sudan IV is commonly used for fat stain.

- (v) Restoration of specimen for museum preservation, Kesserling solutions are considered essential for quality maintenance.

PART - B

2. Write in brief on **any two** of the following : **5x2=10**
- (a) Barr body
 - (b) Immuno histochemistry
 - (c) Tissue processing for frozen sections

PART - C

3. Write short notes on **any four** of the following :
- (a) FNAC Preparation and Procedures **5x4=20**
 - (b) Masson's Trichrane stain
 - (c) Amyloid stains
 - (d) Frozen sections and automation
 - (e) Embedding

PART - D

4. Answer **any three** of the following : **10x3=30**
- (a) Enumerate connective tissue stains. Write principle and procedure of Vongie Son Stain method.
 - (b) Define cytogenetics. Explain the terms with illustration.
 - (i) Replication
 - (ii) Transcription
 - (iii) Translation
 - (c) Write in brief organisation of histopathology department and enumerate pre-analytical procedures of tissue processing.
 - (d) What is Karyo typing ? Give its procedure for preparation of materials. Enumerate clinical significance of Karyo typing.