

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

00903

Term-End Examination

June, 2013

**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) _____ is most commonly employed stain used in Histopathology Laboratories for demonstration of collagen.
- (ii) For vaginal cytology _____ stain is commonly used.
- (iii) Oil red O' stain is used to demonstrate _____.
- (iv) Sex chromatin is demonstrated by _____ method.
- (v) _____ is performed over dead bodies to find out the causes of death.

- (b) Answer True (T) or False (F) of the following : 1x5=5
- (i) PAS stain is commonly used to demonstrate reticulin fibres.
 - (ii) To demonstrate haemosiderin in histopathology sections, Von Kossa's silver nitrate method is used routinely.
 - (iii) Mayer's Mucicarmine method can not demonstrate presence of elastic fibres in histopathology sections.
 - (iv) Reticulin fibres are demonstrated widely by using Ehlich's haematoxylin stain.
 - (v) To diagnose malignant diseases Karotyping plays important role as diagnostic criteria.

PART-B

2. Answer the following :

2x5=10

- (a) Principle of Masson's Trichrome stain.
- (b) Enumerate fat stains.
- (c) Importance of Karyotyping.
- (d) Perl's Prussian blue reaction.
- (e) Restoration of preserved specimen.

PART-C

3. Answer *any five* (5) of the following : 4x5=20

- (a) Connective tissue staining.
- (b) Haematoxylin stains.
- (c) Genetic engineering applications.
- (d) Museum techniques.
- (e) Amyloid stains.
- (f) Frozen section.

PART-D

4. Answer *any three* (3) of the following :
- (a) What is FNAC ? Describe the procedure and clinical importance. 4+3+3
 - (b) Define Immuno-histochemistry. Give a brief account of importance of antibodies and usage of fluorescence. 3+4+3
 - (c) Give an account of quality control in histopathology. Enumerate parameters of check in pre - analytical, analytical and post analytical procedure. Give its importance in maintenance. 4+3+3
 - (d) Describe the procedure of staining of Von Kossa's silver nitrate method. Write its principle and importance. 4+3+3
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