

00523

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

**Term-End Examination  
June, 2012**

**BAHI-008 : HISTOPATHOLOGY AND CYTOLOGY**

*Time : 3 hours*

*Maximum Marks : 70*

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**PART-A**

Answer *any three* questions. Each carries  
10 marks. 10x3=30

1. What are fixatives ? How do you classify fixatives ? Describe compound fixatives.
2. Describe pre - analytical procedures in histocytology laboratory for reception, Processing and submission of samples for reporting to pathologist.
3. Define decalcification and describe its process. Enumerate decalcification agents needed for process of decalcification .
4. Describe the composition, preparation and uses of Papanicolau stain (PAP)

## PART-B

5. Write short notes on *any four* of the following : 5x4=20
- (a) FNAC
  - (b) Tissue Processing
  - (c) Grossing of Specimen
  - (d) Impregnation
  - (e) Paraffin block preparation
6. Write briefly on *any two* of the following : 5x2=10
- (a) Cryostat
  - (b) Histo Kinett
  - (c) Sharpening of Knife

**PART - C**

7. Indicate *True (T)* or *False (F)* for the following : **1x5=5**
- (a) Formalin fixed tissues can be processed for EM (Electron Microscopy)
  - (b) EA - 50 solution is essential for PAP stain
  - (c) Glycerine and Sodium acetate are not essential component of Kaiserling solution used for preparation of fixation of specimen
  - (d) Unfixed tissues cut better on freezing microtome
  - (e) 10% formalin fixed tissues are frozen at - 50 by aerosol spray to be used for cryostal sections.
8. Fill up the blanks : **1x5=5**
- (a) Dehydration is usually starting with \_\_\_\_\_.
  - (b) \_\_\_\_\_ is a rapid dehydrant, fumes of which are most toxic and poisonous.
  - (c) \_\_\_\_\_ is a clearing agent of choice with slower action but causes less brittleness.
  - (d) \_\_\_\_\_ is a simple fixative used for electron microscopy.
  - (e) \_\_\_\_\_ is a decalcifying agent having a property of softening the dense fibrous tissue.
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