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Roll No. ....

**3rd Sem / MLT**  
**Subject:- Histopathology & Cytology - I**

Time : 3Hrs.

M.M. : 100

**SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Most popular alcohol used for dehydration is?  
a) Industrial Alcohol    b) Methylated Spirit  
c) Both A & B    d) Ethanol
- Q.2 The tissue decomposition by the action of enzyme is called?  
a) Putrefaction    b) Autolysis  
c) Both (a) & (b)    d) None
- Q.3 Which is commonly used mounting media?  
a) Canada Balrus    b) Permount  
c) DPX    d) Clarite
- Q.4 Fixatives prevents the cell from  
a) Autolysis    b) Putrefaction  
c) Both A & B    d) None

- Q.5 Which embedding media is most popular?  
a) Cellodin    b) LVN  
c) Carbowax    d) Paraffin Wax
- Q.6 The tissue taken for diagnosis from the dead body is?  
a) Biopsy    b) Autopsy  
c) Tissue    d) All above
- Q.7 Stropping is done on  
a) Leather belt    b) Belgian Black Stone  
c) Paper    d) None
- Q.8 After section cutting, knife should be.  
a) Dry    b) Oiled  
c) Both A & B    d) None
- Q.9 \_\_\_\_\_ is used as mordant in hematoxyline satin.  
a) Hematoxyline    b) Eosin  
c) Alum    d) None
- Q.10 Process of sharpening is  
a) Honing    b) stropping  
c) Dehydration    d) All above

### SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Define Histopathology?
- Q.12 What is Autolysis?
- Q.13 Why Putrefaction is important?
- Q.14 Define Cytology?
- Q.15 What are fixatives?
- Q.16 What is labeling?
- Q.17 L mould stands for \_\_\_\_\_
- Q.18 \_\_\_\_\_ is required for section cutting.
- Q.19 Expand H & E.
- Q.20 Expand DPX

### SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Describe the processes of sharpening knives with diagram.
- Q.22 Write a short note on Automation.
- Q.23 Give the uses of Canada Balsam & DPX.
- Q.24 What are the properties of ideal mounting medias.

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- Q.25 Write down the principle of Reduction reaction.
- Q.26 What is Metachromasia give its types?
- Q.27 Write about Regressive staining and Progressive staining?
- Q.28 Draw a well labeled diagram of Cell?
- Q.29 Give the preparation of cervical smears.
- Q.30 What are the functions of cells?
- Q.31 How we collect the Urine and sputum samples.
- Q.32 What are the properties of fixatives?
- Q.33 Give the role of cytotechnician in cytology.
- Q.34 Differentiate between rough and fine cutting of issue sections.
- Q.35 Mention the role of mordents in staining.

### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Write down the principal and procedure of H & E staining method?
- Q.37 Explain the principal and working of Laminar Air Flow chamber with diagram?
- Q.38 Explain the various types of microtomes?

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