

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 Balsam b) Permount  
c) DPX d) Clarite
- Q.4 Fixatives prevents the cell from  
a) Autolysis b) Putrefaction  
c) Both A & B d) None

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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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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.