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**4th Sem / Branch : DMLT**  
**Sub.: Histopathology & Cytology - II**

Time : 3Hrs.

M.M. : 100

**SECTION-A**

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

- Q.1 In freezing microtome which gas is used?  
a) Oxygen                      b) Carbon dioxide  
c) Lithium                      d) Hydrogen
- Q.2 Clearing fluids make the tissue?  
a) Hard                          b) Transparent  
c) Soft                           d) Turbid
- Q.3 Which is commonly used mounting media?  
a) Canada Balsam              b) Permout  
c) DRX                           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 Which tissue taken for diagnosis from the living body is?

- a) Biopsy                              b) Autopsy  
c) Tissue                              d) All above

Q.7 FNAC is \_\_\_\_\_

- a) Fine needle aspiration cytology  
b) Fine needle separation cytology  
c) Five needle cytology  
d) None

Q.8 Hematoxyline stains which part of the cell

- a) Nuclear Part                      b) Cytoplasmic part  
c) Both A & B                      d) Mitochondria

Q.9 Which is used as a mordant in hematoxyline stain

- a) Hematoxyline                      b) Eosin  
c) Alum                              d) None

Q.10 Which is used as counter stain in PAS staining method

- a) Periodic stain                      b) HCL  
c) Hematoxylin                      d) Acid-Alcohol

**SECTION-B**

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

Q.11 What is decalcification?

Q.12 What are cancer cells?

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- Q.13 Full form of HCG is \_\_\_\_\_.
- Q.14 Define autopsy.
- Q.15 Give the use of objectives in light microscope.
- Q.16 Oil red O stain is used for \_\_\_\_\_ staining.
- Q.17 Which gas is used in cryostat?
- Q.18 Increase in temperature will \_\_\_\_\_ the decalcification.
- Q.19 What is a museum?
- Q.20 No Anesthesia is required in FNAC. (True/False)

### SECTION-C

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

- Q.21 Draw a well labeled diagram of microscope.
- Q.22 What is a cytospin?
- Q.23 Write the composition of Kaiserling solution II?
- Q.24 Give the method of smear preparation.
- Q.25 Write a short note on mounting of frozen sections?
- Q.26 Give the composition of Perernyi's fluid?
- Q.27 List the equipments used for the autopsy?
- Q.28 Give a brief account on pregnancy test?
- Q.29 Differentiate between benign and malignant cells?
- Q.30 Write a note on FNAC?
- Q.31 Give the principle of phase contrast microscopy?

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- Q.32 Write the principle of PAP staining method?
- Q.33 How we can take sample for detection of sex chromatin?
- Q.34 Give a brief account of PAS stain.
- Q.35 Write a brief note on care and maintenance of microscope.

### SECTION-D

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

- Q.36 Explain the principle and procedure of AFB staining method?
- Q.37 Give in detail about the automation in Cytology?
- Q.38 Write a detailed note on cataloguing of Museum specimens?

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