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Roll No. .... /1915

3rd Sem / Branch : MLT

## **Subject:- Histopathology & Cytology**

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 Barsana
  - b) Permount
  - c) DPX
  - d) Clarite

Q.4 Hematoxylin stains which part of the cell

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

Q.5 Most Popular mounting media is?

  - a) Cellodin
  - b) LVN
  - c) Carbowax
  - d) Paraffin wax

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- Q.6 The tissue taken for diagnosis from the living body is?

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

Q.7 Horning is done on

  - a) Leather
  - b) Belgian Black stone
  - c) Paper
  - d) None

Q.8 In which microtome the temp is maintained at about-  
 $15^{\circ}\text{C}$  to  $30^{\circ}\text{C}$

  - a) Rotary
  - b) Cryostat
  - c) Both A&B
  - d) Sledge

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

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

Q.10 Process of sharpening of knife is

  - a) Honing
  - b) Stropping
  - c) Dehydration
  - d) All above

## **SECTION-B**

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

- Q.11 What is microtome ?  
Q.12 What is section cutting?

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- Q.13 What are mountants?
- Q.14 What is the SI unit of pressure
- Q.15 What is electroplating
- Q.16 Draw the pH scale
- Q.17 What is indicator
- Q.18 Name two purification method of hard water.
- Q.19 Due to \_\_\_\_\_ the taste of water is salty  
(Calcium/Sodium)
- Q.20 \_\_\_\_\_ are the chemical compounds that can dissolve in water & form Ions. (electrolytes/ non-electrolytes)

### SECTION-C

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

- Q.21 Draw a microtome Knife and label it.
- Q.22 Explain Paraffin embedding
- Q.23 Give the role of Laboratory Technician in Histology?
- Q.24 Write a short note on Laminar Air Flow chamber
- Q.25 What is the difference between Autopsy and Biopsy
- Q.26 Write down the principle of H&E staining method
- Q.27 What are Accelerators?
- Q.28 Give the classification of Fixatives?

- Q.29 Write down the different types of Microtome
- Q.30 What are the function of histokinete ?
- Q.31 Write the safety guidelines to be taken in MLT lab.
- Q.32 Give the procedure of CSF collection sample
- Q.33 Give the properties of good fixatives
- Q.34 What are mordents? Give two names.
- Q.35 Write a note on automatic knife sharpner

### SECTION-D

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

- Q.36 Write down the complete procedure of May Grunwald & Giemsa staining method?
- Q.37 Explain Knife sharpening technique with its faults & remedies?
- Q.38 Write in detail about the automatic stainer and its uses in H & E staining?