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MLT

Subject:- Histopathology & Cytology I

Time : 3Hrs.

M.M. : 100

SECTION-A

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

Q.1 Heat will accelerate the process of?

- a) Mounting b) Dehydration
- c) Demineralization d) Clearing

Q.2 Which is used for embedding in histology?

- a) Waxed paper cups b) Plastic Trays
- c) Ice Trays d) Glass Tubes

Q.3 Which is commonly used mounting media?

- a) Canada Balsam b) Permount
- c) DPX d) Clarite

Q.4 Eosin 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 Honing 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°C to 30°C.

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

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

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

Q.10 The melting point of Paraffin wax is

- a) 40-45°C b) 45-50°C
- c) 25-40°C d) 54-60°C

SECTION-B

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

Q.11 What are solvents?

Q.12 What is Section cutting?

Q.13 Name any two mountants?

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- Q.14 What is the SI unit of pressure?
- Q.15 What is tissue flotation bath?
- Q.16 What is the normal pH of blood?
- Q.17 What are lubricants?
- 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 well labeled diagram of microtome.
- Q.22 Write the procedure of 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 May Grunwald & Giemsa staining method.
- Q.27 What are Accelerators?
- Q.28 Give the classification of Fixatives?
- Q.29 Write down the application of Microtome.
- Q.30 What are the functions of mitochondria?

- Q.31 Write the safety guidelines to be taken in MLT lab.
- Q.32 Give the procedure of CSF and urine collection.
- Q.33 Give the properties of good fixatives.
- Q.34 What are mordents? Give two names.
- Q.35 Write a note on automatic knife sharpener or histokinete.

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 H & E staining method?
- Q.37 Explain Honing and Stropping technique with its diagram?
- Q.38 Explain the different types of knives with diagrams?