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3rd Sem / Branch : MLT
Subject:- Histopathology & CytologyI

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 mentained at about-
15°C to 30°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?

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- 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?

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