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4th Sem / DMLT
Subject:- Histopathology and 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) Permount
- 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 The 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 Hematoxylin 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 is hematoxyline stain

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

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

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

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SECTION-B

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

- Q.11 What is decalcification?
- Q.12 What are cancer cells?
- 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.

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- Q.25 Write a short note on Automation in histology?
- Q.26 Give the composition of Perenyi'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 Aspiration cytology?
- Q.31 Give the principle of phase contrast microscopy?
- 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 ZN staining method?
- Q.37 Give in detail about the automation in Histopathology?
- Q.38 Write a detailed note on Museum technique?

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