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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 Most commonly used decalcifying fluid is?
a) 10% nitric acid b) Formic acid
c) EDTA d) Ethanol
- Q.2 Alum in H & E acts as
a) Oxidizing agent b) Mordant
c) Blueing agent d) None
- Q.3 Which is commonly used mounting media?
a) Canada Balsam b) Permount
c) DRX d) Clarite
- Q.4 Which of the following is not a natural stain.
a) Brazilin b) Carmine
c) Safranin d) Hematoxylin

- Q.5 Which embedding media is most popular?
a) Cellodin b) LVN
c) Carbowax d) Paraffin Wax
- Q.6 _____ is used as cooling agent in freezing microtome.
a) Oxygen b) Monoxide
c) CO d) CO₂
- Q.7 FNAC is taken from
a) Lymph node b) Breast lump
c) Nodules d) All options
- Q.8 After section cutting, knife should be.
a) Dry b) Oiled
c) Both A & B d) None
- Q.9 _____ is used as a counter stain in hematoxyline stain.
a) Hematoxyline b) Eosin
c) Alum d) None
- Q.10 Which is used as primary 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 Give one use of Decalcification.
- Q.12 What are frozen sections?
- Q.13 Full form of MGG is _____
- Q.14 Define FNAC
- Q.15 _____ and _____ are two types of dyes.
- Q.16 Which of following is used in Gram staining?
Hematoxyline / Crystal violet.
- Q.17 _____ gas used in freezing microtomy?
- Q.18 Increase in temperature will _____ the decalcification.
- Q.19 Define cytology?
- Q.20 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 Write about the various parts of microscope.
- Q.22 What is the cytological stain? Give two names.
- Q.23 Write the composition of Kaiserling solution II?

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- Q.24 Differentiate freezing microtome and crystal microtome.
- Q.25 Write a short note on Gram stain?
- Q.26 Give the advantages of cryostat?
- Q.27 Why autopsy is required in accidental case, explain?
- Q.28 Give a brief account on assessment of decalcification?
- Q.29 Write about the characteristics of malignant cells?
- Q.30 Write a note on Aspiration cytology?
- Q.31 Give the principle of Fluorescent microscopy?
- Q.32 Write the principle of AFB staining method?
- Q.33 Write a short note on pregnancy test?
- Q.34 Give a brief account of Masson's trichome stain.
- Q.35 Write a brief note on Electron 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 PAS staining method?
- Q.37 Explain the principle , reagents, technique and interpretation of PAP staining.
- Q.38 Write a detailed account of different fixatives used in Museum technique?

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