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4th Sem.
Branch : DMLT
Sub.: Histopathology & Cytology-II

Time : 3 Hrs. M.M. : 100

SECTION-A

Note: Multiple type Questions. All Questions are compulsory. (10x1=10)

- Q.1 Hematoxylin stains which part of the cell
a) Nuclear part b) Cytoplasmic part
c) Both A & B d) Mitochondria
- Q.2 The tissue taken for diagnosis from the living body is –
a) Biopsy b) Autopsy
c) Examination d) Tissue preparation
- Q.3 Which is used as mordant in H & E staining.
a) Eosin b) Alum
c) Hematoxyline d) None
- Q.4 Which is used as counter stain in PAS staining method.
a) Periodic acid b) HCL
c) Schiff reagent d) Alcohol

- Q.5 After section cutting knife should be:-
a) Dried b) Oiled
c) Both A & B d) None
- Q.6 _____ is used as a cooling agent in freezing microtome.
a) Oxygen b) Carbon monoxide
c) CO₂ d) Liquid ammonia
- Q.7 ZN stain is used for detection of:-
a) AFB b) Leprae
c) Both A & B d) None of these
- Q.8 Electron microscope has the advantage.
a) It has high resolving power
b) Provides 3D image
c) Micro anatomical structure study
d) All of these
- Q.9 Oil red "O" stain is used for :-
a) Fat b) Cartilage
c) Bone d) None of these
- Q.10 FNAC is taken from :-
a) Lymphoid node b) Breast
c) Lump nodules d) All option

SECTION-B

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

- Q.11 Name any one micro anatomical fixative.
Q.12 What are mordants.
Q.13 Define embedding.
Q.14 Give the name of the dehydrating agent in staining process.
Q.15 Define cytology.
Q.16 What is fluorescent microscopy.
Q.17 Write the names of decalcifying agents.
Q.18 Explain honing.
Q.19 What is the temperature of cryostat.
Q.20 Name two fixative used in histopathology lab.

SECTION-C

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

- Q.21 Explain the procedure and results of AFB staining.
Q.22 Explain working of automatic knife sharpener.
Q.23 Write down preparation of vaginal smear preparation.
Q.24 Write the use of hormonal assessment. (Pregnancy test).

- Q.25 What is the importance of FNAC diagnostic procedure.
Q.26 Write about the handling of fresh histological tissue.
Q.27 What are essential characteristics of the malignant cell.
Q.28 How embedding of tissue is done.
Q.29 Mention different application of exfoliative cytology.
Q.30 Describe various procedures for fixation of smear.
Q.31 What are museum specimen describe its utility.
Q.32 Write the working of automatic tissue processor.
Q.33 What are different solutions required for papinocola staining method.
Q.34 Write a short note on MGG staining.
Q.35 What are characteristics of a good mountant.

SECTION-D

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

- Q.36 Explain all the steps performed during a histological examination of a tissue sample.
Q.37 Differentiate between malignant cell and normal cell.
Q.38 Explain the principle, techniques & interpretation of result of H & E staining.