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**4th Sem / DMLT, DMLT**  
**(For Speech and Hearing Impaired)**  
**Subject:- Immunopathology & Cytology**

Time : 3Hrs.

M.M. : 60

**SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 Which special stain is used to demonstrate glycogen in tissues?

- a) Alcian blue
- b) Periodic acid-Schiff(PAS) stain
- c) Masson's trichrom d) Sudan black

Q.2 What is the primary purpose of fixation in tissue processing?

- a) To stain the tissue
- b) To kill microorganisms
- c) To preserve tissue architecture and prevent autolysis
- d) To hydrate the tissue

Q.3 The primary purpose of museum specimens in medical education is:

- a) Entertainment b) Artistic display

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c) Teaching and reference

d) Decoration

Q.4 The main purpose of aspiration cytology is to:

- a) Identify bone structure
- b) Assess cell morphology
- c) Remove tumor mass
- d) Study tissue architecture in detail

Q.5 The Romanowsky group of stains includes all except:

- a) Giemsa b) Leishman
- c) Pap Stain d) Wright

Q.6 Masson's trichrome stain is used primarily to differentiate:

- a) Nuclei from cytoplasm
- b) Muscle from connective tissue
- c) Neurons from glial cells
- d) RBCs from WBCs

**SECTION-B**

**Note:** Objective/Completion type questions. All questions are compulsory. (6x1=6)

Q.7 \_\_\_\_\_ stain is used to detect polyaccharides.

Q.8 \_\_\_\_\_ is an instrument to freeze the tissue.

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- Q.9 Define autopsy.
- Q.10 Anesthesia is required in FNAC. True/False
- Q.11 Expand HCG.
- Q.12 What is mounting.

### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Write the procedure of gram staining method.
- Q.14 What are decalcifying agents? How are they classified?
- Q.15 Enlist the various steps of tissue processing.
- Q.16 Write about the reception and precessing of frozen tissue.
- Q.17 Give a brief account of cataloguing of museum specimens.
- Q.18 Write a note on the instruments used in autopsy procedure.
- Q.19 Write the uses of FNAC.
- Q.20 Briefly discuss the HCG hormone along with its applications.
- Q.21 What is cytopspin and give its uses.
- Q.22 Write a short note on assessment of decalcification.

### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Give the principle and procedure of PAS staining method.
- Q.24 Explain about the advancements in histopathology laboratory.
- Q.25 Give a brief account of autopsy procedure.