



Final Term Exam



May 2024

Department: Zoology

Major: 2nd Credit Hours.

Course Title:
Histochemistry &
Microtechnique

Code number: 216 Z

Marks: 60

Date: 5/6/2024

Time: One Hour

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Answer the Following Questions:

Question One:

(20 Marks)

Complete the following sentences :-

- 1- Important factors of the good fixatives are
- 2- The tissue processes are
- 3- Fixation is a process by which are preserved from, either through or.....
- 4- Elastic tissue fibers stain is, Best's carmine stain for..... and Periodic acid Schiff reaction for
- 5- The most commonly used fixative in histology is
- 6- Methyl Green - Pyronin stain for

Question Two:- Circle the correct answer:-

(20 Marks)

1- Dehydration meaning:-

- a- remove of xylene b- remove of wax c- remove of water d- all of them.

2- Melting point temperature of paraffin wax, which is :

- a- 30 - 40 °C b- 40 - 50 °C c- 50 - 55 °C d- 54 - 60 °C

3- Acid decalcifying solutions nitric acid : use aqueous solution:

- a- 5% nitric acid b- 7% nitric acid c- 6% nitric acid d- 8% nitric acid

While trichloro-acetic acid use:

- a- 7% solution. b- 8% solution c- 9% solution d- 10% solution.

4- Silver method stain for:

- a- Protein b- acid mucopolysaccharide c- ascorbic acid d- DNA & RNA

5- Feulgen nuclear reaction for:

- a- DNA & RNA b- DNA c- RNA d- glycogen e- amino acid

Question Three:

(20 Marks)

Match the causes from A with solvent from B

Causes (A)	Solvent (B)
1 - A. The cover glass is warped. B. the mounting medium has been thinned to much with xylene.	a- The mounting medium may be too thick. Making the cover glass to be hold too far above the tissue.
2- The mounting medium may be too thick. Making the cover glass to be hold too far above the tissue.	b- Remove the cover glass and mounting medium with xylene. Remount the section with fresh mounting.
3- The sections were not completely dehydrated , and water is present in the mounted section.	c- Filter the hematoxylin solution daily before staining slides .
4- Mounting medium may be present on top of the cover glass.	d- A. Remove the cover glass and apply a new cover glass. B. apply a new cover glass with fresh mounting medium .
5-The metallic sheen that develops on most hematoxylin solutions has been picked up on the slides.	e- Remove the cover glass and mounting medium with xylene. Return the slides to fresh absolute alcohol (several changes). After the sections are dehydrated, clear with fresh xylene and mount. All dehydrating and clearing solutions should be changed before staining any more sections.

انتهت الاسئلة

With Best Wishes

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