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MATRIC NUMBER: 18/MHS06/053

DEPARTMENT: MEDICAL LABORATORY SCIENCE

LEVEL: 200

COURSE: MLS 202

1. Write on the purpose of fixation.

**ANSWER**

They are different purposes of fixation but the most important purpose of fixation is to **kill the tissue so that autolysis and putrefaction is prevented.** Other purposes of fixation are;

* Preserves biological material as close to its natural state as possible in the process of preparing tissue for examination.
* It terminates any ongoing biochemical reaction and may also increase the treated tissues mechanical strength or stability.
* To maintain the tissue in a life like manner without change in their structure.
* To avoid decomposition due to deprivation of oxygen, accumulation of CO2, and metabolites.
* To harden the tissues

1. List 5 compound fixatives and composition

**ANSWER**

* **FORMALIN SOLUTION(10% UNBUFFERED)**

FORMALDEHYDE- 10ml (37-40%)

DISTILLED WATER- 90ml. Then mix properly

* **BOULIN SOLUTION**

PICRIC ACID

SATURATED AQUEOUS SOLUTION- 75ml

FORMALIN- 40%

AQEOUS SOLUTION- 25ml

ACETIC ACID

GLACIAL- 5ml

* **GENDRE SOLUTION**

SATURATED SOLUTION OF PICRIC ACID

ETHANOL- 80ml (95%)

GLACIAL ACETIC ACID- 5ml

* **HOLLANDE SOLUTION**

CUPRIC ACETATE- 6.25g

PICRIC ACID- 10g

GLACIAL ACETIC ACID- 2.5ml

WATER- 250ml

* **B5**

MERCURIC SOLUTION- 12gm

SODIUM ACETATE- 2.5gm

DISTILLED WATER- 200ml