NAME: OKERE AMARACHI PRESCIOUS

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DEPARTMENT: MED LAB SCI

COURSE CODE: MLS 202

1. Write on the purpose of fixation.

The purpose of fixation is to preserve tissues permanently in as life-like a state as possible. Fixation should be carried out as soon as possible after removal of the tissues (in the case of surgical pathology) or soon after death (with autopsy) to prevent autolysis. There is no perfect fixative, though formaldehyde comes the closest. Therefore, a variety of fixatives is available for use, depending on the type of tissue present and features to be demonstrated

2) List 5 compound fixatives and composition.

Bouin’s Fluid:

                a) Saturated (Aqua’s) picric acid      -    75 ml

                          b) Formalin                                     -    25 ml

                          c) Glecial acetic acid                       -    5   ml

   Zenker’s Fluid

                   a) Mercuric chloride -   5 gm

                   b) Pot. Dichromate   -   2.5 gm

                   c) Sodium sulfate     -   1.0 gm

                   d) Distilled water     -    100 ml

                   e)  Glecial acetic acid -   5ml

  New Comer’s Fluid

                 Isopropile alcohol      -   60 ml

                 Petroleum ether        -   10 ml

                 Propionic acid          -    30 ml

                Ace4tone            -     10 ml

b)    Muller’s Fluid

                    Potassium dichromate    -  2.5 gm

                   Sodium sulfate               -   1   gm

Distilled water               -   100 ml

    Formol Saline

    Formalin     -  90 ml
    NaCl           -   0.85

    Distilled Water -   100 ml