

DMLT/DMRT EXAMINATION BOARD, ODISHA
FINAL D.M.L.T. ANNUAL EXAMINATION, 2022

PATHOLOGY, PAPER-I
 (HISTO-TECHNOLOGY, CYTOLOGY & MUSEUM STUDY)

TIME: 3 Hours

FULL MARKS:100

Answer all questions

1. Answer (Any two)

- a. Define " fixation"; Classify the fixatives; Describe in brief regarding Formalin under the headings: (a) Preparation , (b) Mechanism of action, (c) Advantages & Disadvantages.

(2+2+2+3 = 15)

- b. What is Cytology? Enumerate in detail about the collection, fixation & staining procedure of Pap smear.

(2+ 3+ 2+ 8 = 15)

- c. What is Histo-technique? Write the different steps of of tissue processing (a) fixation (b) dehydration (c) clearing (d) paraffin block making. Write details of Hematoxylin & Eosin staining.

(2+2+2+2+2+5 = 15)

2. Write short notes on (Any five)

(8 x 5 = 40)

- a. Dehydration
- b. Decalcification
- c. Microtome knives
- d. Mounting of stained sections
- e. Features of an ideal fixative

3. Match the following -

(2 X 5 = 10)

Column - A

Column- B

- i. Perl's stain
- ii. Celloidin.

- a) Clearing agent
- b) Glycogen

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- iii. Xylene
- iv. Hematoxylin
- v. PAS stain

- c) Embedding medium
- d) Iron
- e) Basic stain

4. Fill in the blanks

(2 x 10 = 20)

- a) _____ is used as a fixative for electron microscopy
- b) Full name of MGG stain is _____
- c) _____ stain is used to demonstrate amyloid.
- d) Full form of DPX is _____
- e) Clearing in histopathology is done by removal of _____
- f) _____ is used for blueing.
- g) 1% acid alcohol is used in Hematoxylin & Eosin stain for _____
- h) Colour code of the bin used to dispose animal waste is _____
- i) Cervical smear for cytological examination is ideally collected by _____
- j) Full name of FNAC is _____