



Total Pages : 3

CCFUP/3rd Sem/BMLT/25(NEP)

2025

3rd Semester Examination (CCFUP : NEP)

BMLT

Paper : MJ 3-T (Single Core Major)

(Histology and Cytology)

Full Marks : 40

Time : Two Hours

The figures in the margin indicate full marks.

*Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

Answer any **five** questions : $2 \times 5 = 10$

1. Define Autopsy and biopsy.
2. What is the usual thickness of paraffin section?
3. What is air drying artifact?
4. What is a cell block technique?
5. Name any two manual staining methods used in histology.
6. What is a cytospin? Mention its application.
7. Define frozen section technique.

P.T.O.

(2)

8. What is liquid-based cytology (LBC)?

Group - B

Answer any *four* questions : $5 \times 4 = 20$

9. Describe the types of tissue specimens received in a histopathology laboratory and their proper handling.
10. Explain the principle, procedure, and clinical significance of PAS stain.
11. Write the principle of Masson's trichrome stain. Write about the different dyes and their composition in trichrome stain. Name the two components used in H & E stain. $2+2+1$
12. How can you prepare schiff reagent in the laboratory? Describe the procedure of decalcification in histopathology. $2\frac{1}{2}+2\frac{1}{2}$
13. Write the composition of Bouin's fixative. What are the characteristics of an ideal fixative? Name one non-toxic clearing agent. $2+2+1$
14. Explain the principle and uses of Giemsa and Leishman-Giemsa stains in cytology.

Group - C

Answer any *one* question : $10 \times 1 = 10$

15. Explain the stepwise procedure of tissue cutting in histopathology. Explain the principle, and procedure of Papanicolaou staining. $5+5$



(3)

16. Explain the principle, procedure, and clinical utility of exfoliative cytology. Discuss the preparation and staining of cytological smears using MGG and Papanicolaou stains, with their advantages. (2+2+2)+(2+2)
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