

M. Sc. 3rd Semester Examination, 2023

BIO-MEDICAL LABORATORY

SCIENCE

PAPER – BML-303

Full Marks : 50

Time : 2 hours

The figures in the right hand margin indicate marks

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

GROUP – A

Answer any **four** of the following questions :

2 × 4

1. Define immuno histochemistry.
2. Write the name of any two fixatives.

3. What are the full forms of IEHC and IFHC.
4. Define infiltration and impregnation.
5. Write the full forms of ABC and PAP techniques.
6. Write the major hazards noted in histology laboratory.

GROUP—B

Answer any **four** of the following questions :

7. Write the objectives of clearing of tissue in tissue processing. 4 × 4
8. Write the steps of dehydration in tissue processing.
9. State normobaric and hypobaric embedding in tissue processing.

10. Describe the preparation of different stains used in trichrome staining.
11. State the importance of Cryomicrotomy.
12. "Marker detection by immunohistochemistry is preferred over histology for disease diagnosis"
-Justify the statement.

GROUP—C

Answer any **two** of the following questions :

13. Write the principle of PAS reaction. Describe the Step of PAS reaction followed in histochemistry. 8 × 2
14. State the principle followed in ABC technique. Write the sequential steps adopted in this technique. 3 + 5

15. How will you prepare haematoxylin stain in your laboratory? Write the steps followed in H-E staining of the supplied tissue section. 3 + 5
16. Write the principle and procedure of PAP staining. 3 + 5

[Internal Assessment — 10 Marks]
