

2022

1st Semester Examination

**BIOMEDICAL LABORATORY
SCIENCE AND MANAGEMENT**

Paper : BMLSM 104

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 *four* of the following : 2×4=8

1. What do you mean by feedback system in endocrine system ?
2. Write the full form of CLIA and FIA.
3. What do you mean by cross reaction in hormone assay ?
4. Define goitre.
5. Define standards which are used in hormone assay.
6. What is monoclonal antibody ?

P.T.O.

Group - B

Answer any *four* of the following : $4 \times 4 = 16$

7. Write the programme through line diagram of hormone assay by ELISA. 4
8. Classify immuno assay on the basis of labelling and platform of Ag-Ab reaction. 2+2
9. Describe the pituitary-testicular axis with different feedback systems citing line diagram. 4
10. Write the principle of RIA. What do you mean by half life of radio active element with one example? 2+2
11. State the sensitivity and specificity of hormone assay method. 2+2
12. Write the steps of antibody coating in ELISA microwells. 4

Group - C

Answer any *two* of the following : $8 \times 2 = 16$

13. Describe the types of hypothyroidism and hyperthyroidism with their specific sensors. 8
 14. Write the protocol of insulin assay through ELISA. 8
 15. Why is fasting blood glucose level not the effective sensor for β -cell status assessment? Write the importance of plasma C-peptide assay for this purpose. 4+4
 16. Write the standard curve preparation of hormone assay in ELISA. What do you mean by interassay and intrassay variation in hormone quantification? 4+4
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1st Semester Examination

**BIOMEDICAL LABORATORY
SCIENCE AND MANAGEMENT**

Paper : BMLSM 195

(Practical)

Full Marks : 50

Time : Four Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Answer *all* questions.

1. Submit separate survey reports on Biosafety, Ethics and Total Quality Management. 10+10+10
 2. Viva-voce on above survey reports. 20
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