

2025

M.Sc. 1st Semester Examination
BIOMEDICAL LABORATORY
SCIENCE AND MANAGEMENT

BMLE406B0

[Clinical Endocrinology]

Full Marks : 25

Time : One Hour

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 *two* questions : 2×2=4

1. Define the terms polyuria and polydipsin.
2. Differentiate between type 1 and type 2 diabetes mellitus.
3. What is the role of the "blocking" step during the antibody coating process in ELISA?
4. What are the two primary reasons for the high sensitivity of TR-FIA?

P.T.O.

(2)

Group - B

Answer any *two* questions : $4 \times 2 = 8$

5. Discuss briefly on pituitary adenomas and its consequent endocrinal dysfunction.
6. Discuss critically on Competitive ELISA as an alternative to RIA.
7. State the significance of cross-reactivity and specificity in hormonal immunoassays.
8. Write a concise note on the clinical features of Graves' disease.

Group - C

Answer any *one* question : $8 \times 1 = 8$

9. Discuss the mechanism, diagnostic parameters and clinical relevance of SIADH. $4+2+2$
10. What is the coated antibody in Sandwich ELISA? Describe in detail the steps involved in Sandwich ELISA with a neat labelled diagram. Why is Sandwich ELISA more sensitive than other ELISA techniques? $2+4+2$

Internal Assessment - 5 marks
