

2018

M.Sc. 1st Seme. Examination

BIOMEDICAL LABORATORY SCIENCE & MANAGEMENT

PAPER—BLM-104

Full Marks : 40

Time : 2 Hours

The figures in the margin indicate full marks.

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

Illustrate the answers wherever necessary.

1. Answer any four questions :

4×2

- (a) What do you mean by solid phase and liquid phase immunoassay ?
- (b) Write the names of any two enzymes used for labelling of antigen.

(Turn Over)

- (c) Write the names of any two radioactive elements used for tagging the antigen.
- (d) What do you mean by secondary hypothyroidism ?
- (e) Write the names of any two goitrogenic substances.
- (f) Write the shape of s-ELISA and C-ELISA standard curves.
- (g) What do you mean by standards ?
- (h) What do you mean by monoclonal antibody ?

2. Answer any *four* questions :

4×4

- (a) What are the causes of type-1 diabetes ?
- (b) Why glucose memory test is preferred over fasting blood glucose test for diagnosis of diabetes ?
- (c) State the classification of immunoassay on the basis of labelling molecule.

- (d) Why infertility is noted in hypothyroidal condition ?
- (e) Write the steps for primary antibody coating of ELISA microwells.
- (f) Why male infertility is noted in diabetes ?
- (g) State the principle of s-ELISA.
- (h) Write the major causes of female infertility.

3. Answer any *two* questions : 2×8

- (a) Why is ELISA considered as first choice of immunoassay than others ? Why is s-ELISA preferred over s-ELISA. 4+4
- (b) "Hypothyroidal condition results obesity" — Justify the statement. Write the hormonal basis of evolution. 4+4
- (c) Write the fundamental steps adopted in RIA for hormone assay. What do you mean by IRMA ? 6+2

- (d) Write the protocol of s-ELISA for immunoassay of any hormone. State the different stages of goitre. **6+2**
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