

2017

M. Sc.

1st Semester Examination

BIO-MEDICAL LABORATORY SCIENCE AND MANAGEMENT

PAPER—BLM-104

Subject Code—22

Full Marks : 40

Time : 2 Hours

The figures in the right-hand margin indicate full marks.

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

Illustrate the answers wherever necessary.

Answer Q. No. 1 and any three of the following.

1. Answer any ten questions of the following : 10×1

(a) What is cross reaction ?

(b) Write the main cause of D.M. type-2.

- (c) What is the relationship between OD and hormone concentration in s-ELISA ?
- (d) Write the thyroid profile in primary hyperthyroidism.
- (e) Write the marker molecules used in FIA and CLIA for labelling purpose.
- (f) What hormone is synthesized and secreted from adipose tissue ?
- (g) What is the source of Insulinase in our body ?
- (h) Which counter you will use when antigen molecules are labelled with C^{14} ?
- (i) Write the full form of DIT.
- (j) What do you mean by autoimmune diabetes ?
- (k) Which hormone is mainly responsible for ovulation ?
- (l) What do you mean by teratorpermia ?
- (m) Which enzyme is mainly used for labelling purpose for antigen molecule in ELISA ?
- (n) What do you mean by cranisal diabetes mellitus ?
- (o) Define infertility.

2. (a) What do you mean by solid and liquid Phase ELISA ?

(b) Why ELISA is preferred over RIA ?

(c) Write the protocol of C-ELISA for the assessment of any one hormone. 3+3+4

3. (a) Why plasma glucose level is not consider as sensitive indicator for the diagnosis of diabates mellitus ?

(b) How will you access the β -Cell status of Isletes ?

(c) Why female fertility is interfered by obese conditon ?

(d) What is primary hypogonadism ? 3+2+3+2

4. (a) Define primary hypothyroidism.

(b) Write the status of pituitary-thyroidal axis in Goitre state.

(c) Write the mechanism of action of thiocyanate for induction of goitre. 2+4+4

5. (a) Define interassay and intraassay variations.

(b) Why is hypogonadism noted in hyperadrenal condition ?

(c) Write any two major causes of female infertility.

(d) What do you mean by antisperm antibody?

3+3+2+2

6. (a) What do you mean by hot and cold antigens?

(b) Write the protocol of radiolabelling of hormone.

(c) Write the principle of scintillation counter.

(d) State the nature of standard curve of e-ELISA and s-ELISA.

2+3+3+2
