2014
M.Sc.
1st Semester Examination
BIO-MEDICAL LABORATORY SCIENCE & MANAGEMENT
PAPER—BLM-104
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 questions from the following.

1. Answer any ten questions of the following : 1×10
   (a) Write the full form of CLIA.
   (b) Write the names of any two fluorescent molecules.
   (c) What do you mean by B/Bo%?
   (d) Write the names of any one enzyme used for labelling purpose in ELISA.
   (e) When you use β-counter in RIA?
   (f) What do you mean by C-peptide?
   (g) What do you mean by HbA1C?
   (h) What are the types of diabetes insipidus?

(Turn Over)
(i) What do you mean by monoclonal antibody?

(ii) Write the full form of ARGG.

(k) What do you mean by Goitre?

(l) What are the advantages of RIA?

(m) Give two examples of Growth hormone diseases.

(n) Write the full forms of '3 Ps' noted in diabetes mellitus.

(o) What is primary hypogonadism?

2. (a) Why ELISA is preferred over RIA in diagnostic laboratories?

(b) Classify immunoassay on the basis of labelling of antibody.

(c) Write the steps in general for s-ELISA of testosterone.

3. (a) Write the major causes of IDDM.

(b) Why 'C-peptide' assay is considered as a reliable test for the assessment of β-cell status than plasma insulin assay?

(c) Why diabetes known as syndrome?

(d) Write any four cause of NIDDM.

4. (a) Write the thyroid profile of primary hyperthyroidism and primary hypothyroidism with reasons.

(b) State the role of HCN and ClO₄⁻ for the onset of goiter.

(c) Write the pathophysiological symptoms of hypothyroidism.
5. (a) What do you mean by dynamic test of endocrine axis?
   (b) Write the principle and procedure of any one dynamic test for the assessment of pituitary-gonadal axis status.
   (c) State the differences between primary and secondary male hypogonadism.

6. (a) What is Chemiluminescence assay?
   (b) Describe the steps for chemiluminescence assay.
   (c) State the importance of standard curve used in immunoassay.