2016

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 of the following.

- 1. Answer any ten of the followings: 10×1
 - (a) What do you mean by intra assay variation?
 - (b) Define sensitivity of hormone assay.
 - (c) Write the mode of action of Clomiphene.

- (d) Write the shape of s-ELISA graph.
- (e) What do you mean by solid-phase immuno assay?
- (f) Write the names of any two tracer molecules used for labelling purpose in RIA.
- (g) Why Plasma Insulin is not valid assay technique for assessment of Pancreatic status?
- (h) What do you mean by Primary hypothyroidism?
- (i) What do you mean by GDM?
- (j) What is mitochondrial D.M.?
- (k) Write the full form of PCOS.
- (1) What do you mean by temporary endocrine gland.
- (m) Define primary hypogonadism.
- (n) Write the names of any two hormones involved in thyroid hormone synthesis.
- (o) Write the full form of MIT.

- 2. (a) Classify ELISA on the basis of labelling of antibody.
 - (b) Write the protocol of s-ELISA for any one hormone assessment.
 - (c) Write the advantages of ELISA over RIA.

3+4+3

- 3. (a) Write the changes in thyroid profile of primary and secondary hyperthyroidism patients.
 - (b) Write the different types of feedback action of Pituitary-thyroid axis.
 - (c) State the mode of action of Goitrogen in general.

 4+4+2
- 4. (a) Write the causes of diabetes mellitus type-2.
 - (b) Why hypo testicular activity is noted in diabetes mellitus?
 - (c) 'Obesity results male hypogonadism' Justify the statement.

3+4+3

- 5. (a) How is radiolabelling of hormones different from antibody coating?
 - (b) What is Chemoluminance?
 - (c) State the principles of fluorescence immunoassay (FIA). What are its advantages of RIA?

3+4+3

- 6. (a) Write the major causes of primary hypogonadism.
 - (b) State the protocol of Clomiphene citrate test for evaluation of Pituitary-ovarian axis.
 - (c) Write the role of thyroid on testicular activity.

3+4+3