

M.Sc. 3rd Semester Examination, 2018

BIO-MED. LAB SCI AND MGM

PAPER –BLM-303

Full Marks : 40

Time : 2 hours

Answer Q. No.1 and any three from the rest

The figures in the right-hand margin indicate marks

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

Illustrate the answers wherever necessary

1. Answer any *ten* questions of the following : 1×10
 - (a) Write the name of any two specific markers of pancreatic function.
 - (b) What is the demerit of GOD-POD method for blood glucose estimation ?

(Turn Over)

- (c) Write one clinical significance of glycosylated haemoglobin ?
- (d) What do you mean by basal acid output (BAO)?
- (e) Write the normal range of BUN in Male adult.
- (f) What do you mean by ON/OFF test in the biochemical laboratory ?
- (g) Write any two features of primary standard.
- (h) Write the name of any one trait marker of alcohol screening test.
- (i) What is the full form of CDT marker ?
- (j) Write the name of any one disease when ALP activity elevated.
- (k) Write any two important marker of LFT.
- (l) Write any one application of spectrophotometry.

- (m) What is hyponatremia ?
- (n) What is displacement titration ?
- (o) What is macroanylemia ?
2. (a) Write the principle and procedure of blood glucose estimation by GOD-POD method.
- (b) State the clinical significance of blood urea and triglyceride. $(2 + 4) + 2 + 2$
3. (a) What do you mean by state marker and trait marker of alcohol screening test ?
- (b) Discuss briefly about any two state marker of alcohol screening test. $(2 + 2) + (3 + 3)$
4. (a) Write the name of different cardiac marker enzymes.
- (b) Discuss briefly the changes of any three cardiac markers following a myocardial infraction.
- (c) What is plaque ? $2 + 6 + 2$

(4)

5. (a) What precaution should be taken at the time of blood collection in the laboratory ?
- (b) "Separated plasma or serum is best for refrigeration than whole blood for biochemical analysis" – Justify the statement.
- (c) What are the clinical significance of flame photometry in the field of Biomedical laboratory Science ? 3 + 3 + 4
6. (a) Write the principle and procedure of determination of total protein.
- (b) Write the clinical significance of SGPT and serum sodium. (2 + 4) + (2 + 2)
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