M.Sc.

2017

3rd Semester Examination

BIOMEDICAL LABORATORY SCIENCE AND MANAGEMENT

PAPER-BLM-303

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 question No.1 and any three from the rest.

- 1. Answer any ten questions of the following: 10×1
 - (a) Write one clinical significance of acid phosphatase estimation.
 - (b) Write name of two sensors for assessment of cardiac function test.

(Turn Over)

- (c) What do you mean by end point of tritration?
- (d) What do you mean by redox tritration?
- (e) Which anticoagulant is generally used for the estimation of blood glucose level?
- (f) Write any two applications of flame photometry.
- (g) What do you mean by monochromaton?
- (h) Write any two condition when serum amylase levels are increased.
- (i) Write the normal range of blood creatinin level in male adult.
- (j) What do you mean by maximum acid output (MAO)?
- (k) Write any one light source of UV spectrophotometer.
- (l) Write any two condition when gastric HCl level is decreased.
- (m) State the name of one hormone that stimulates gastric HCl secretion.
- (n) Which colour flame do you found for potassium in flame photometry?

- (o) Write one significance of SGOT as pay.
- 2. (a) What do you mean between dicretionary test and ON
 / OFF test performed in the biochemical laboratory?
 - (b) Write the different steps of veinpuncture technique.
 - (c) What are the different common errors occur in biochemical laboratory? 3+4+3
- 3. (a) Write the principle of blood creatinine level assessment by alkaline picrate method.
 - (b) Why creatinine level is better marker for renal function test?
 - (c) Write the procedure of defermination of serum creatinin level.
 - (d) What are the clinical significance of blood bilirubin level? 2+2+4+2
- 4. (a) How will you prepare protein-free blood?
 - (b) Write the aspespment of salicylate toxicity in blood.
 - (c) What are the clinical significance of blood glucose level?

- 5. (a) What are the different components of spectrophotometer?
 - (b) How photomultiplier tube works in spectrophotometer?
 - (c) What do you mean by double beam and single beam spectrophotometer.
 - (d) What are the advantages of double beam spectrophotometer over single beam type. 2+2+3+3
- (a) Write the name of two markers of pancreatic function test.
 - (b) Write about any two test meal in gastric function test.
 - (c) What are the different components of flame photometry. 2+(2½+2½)+3