

2015

M.Sc.

1st Semester Examination

BIO-MEDICAL LABORATORY SCIENCE & MANAGEMENT

PAPER—BLM-101

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 is BMI ?

(b) Define Normality.

(c) At which condition $K = [S]$?

(Turn Over)

- (d) Name the two drugs used for the treatment of gout.
 - (e) What do you mean by hypertrophy?
 - (f) What do you mean by active site of enzyme?
 - (g) What do you mean by supine position?
 - (h) What is apoptosis?
 - (i) What is the anatomical position of heart?
 - (j) Write H-H equation of pH determination.
 - (k) Define Beer's law.
 - (l) Name the two vitamins related with specific enzyme action.
 - (m) What do you mean by prosthetic group?
 - (n) What is the anatomical position of femoral artery?
 - (o) What do you mean by morula?
2. (a) What is pH?
- (b) Write the different steps of measurement of pH in pH meter.

- (c) What do you mean by sagittal and midsagittal plane?
- (d) Write the function of endocrine and circulatory system.

1+3+(1+1)+(2+2)

3. (a) What is Obesity?
- (b) Write the causes of Obesity.
- (c) What are the role of leptin and grelin for the regulation of Obesity?

2+3+(2 $\frac{1}{2}$ +2 $\frac{1}{2}$)

4. (a) What is homeostasis?
- (b) What are the components of homeostatis?
- (c) Write the role of hormones for the maintenance of blood glucose homeostatis?
- (d) What are the necessary causes of gout?

2+2+3+3

5. (a) Write the role of CDK in cell cycle.
- (b) State the salient features of apoptotic cell.
- (c) Describe the mitochondria dependent pathway for the regulation of apoptosis.

3+2+5

6. (a) State the application of SEM and TEM.
- (b) Make a comparative statement of SEM and TEM.

(2+2)+6
