

**M.Sc.**

**2015**

**2nd Semester Examination**

**BIOMEDICAL LABORATORY SCIENCE AND MANAGEMENT**

**PAPER—BLM-204**

*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 of the following.

1. Answer any ten questions of the following : 10×1
- (a) Write one condition for Yate's correction.
  - (b) What is the focal theme of Ho hypothesis ?
  - (c) When you will follow two tail test for significance study ?

*(Turn Over)*

- (d) Write an example of positive correlation from your discipline.
  - (e) Write an application of chi square test.
  - (f) What do you mean by 'data' ?
  - (g) What do you mean by dependent variable ?
  - (h) Write the full form of VLSIC.
  - (i) What do you mean by volatile memory ?
  - (j) What do you mean by 'Molal' solution ?
  - (k) What do you mean by  $6N Hcl$  ?
  - (l) What is a programme language ?
  - (m) What do you mean by equivalent weight ?
  - (n) Distinguish between bit and byte.
  - (o) Write the names of any two output device of computer.
2. Systolic blood pressure (mm of Hg) of 9 individuals before exercise and after exercise given below. Find out whether or not the systolic blood pressure is significantly higher after exercise than before exercise :



4. (a) Distinguish between system software and application software.
- (b) Explain the five basic operation performed by the computer. 5+5
5. (a) There are 20 gm NaCl in 400 ml of solution. What is its molarity ?
- (b) What would be the molecular concentration of the solution resulting from the mixing of 50 ml of 1 molar solution and 120 ml of 3 molar solution ? 4+6
6. (a) What will be the concentration resulting from mixing of 20 ml of 5% NaCl solution with 30 ml of 10% NaCl solution ?
- (b) 10 CC of 2% sugar solution was mixed with 15 cc of sugar solution of unknown concentration to produce 25 cc of 5% sugar solution. What was the concentration of 2nd solution ?

5+5