

**M. Sc.**

**2018**

**2nd Semester Examination**

**BIO-MEDICAL LABORATORY SCIENCE AND MANAGEMENT**

**PAPER—BLM-203**

**Subject Code—22**

*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 five questions :

5×2

(a) When will you adopt two tail 't' test ?

(b) Why correlation is more valid than chi-square test ?

*(Turn Over)*

- (c) Write the positive correlation with one example.
- (d) When 'Ho' is accepted in 't'-test ?
- (e) Write the formula of 't' test using population mean.
- (f) Write any two application of Ms-Excel.
- (g) What do you mean antivirus in computer ?
- (h) Write the names of any two storage device in computer.
2. (a) Haemoglobin levels of 8 boys and 8 girls given below (g%). Find whether or not the mean of value of haemoglobin of boys is significantly higher than that of girls.

Hb(G%)

Boys 12 11 9 16 14 13 8 10

Girls 12 10 14 8 13 11 9 15

$$t_{0.05(14)} = 1.761, t_{0.01(14)} = 2.624.$$

- (b) Define median.

8+2

3. (a) Compute the mean value of blood pressure (sp) from the following frequency distribution in a sample.

Class Interval	118-120	121-123	124-126	127-129	130-132
Frequency	4	5	10	8	3

- (b) In a sample, the median is 75 and mean is 73. Compute the Mode of that sample. 7+3

4. Compute the rp between blood pressure (sp) and age of following 12 individuals using the following data.

Individuals	1	2	3	4	5	6	7	8	9	10	11	12
sp(mm of Hg)	130	140	145	155	132	130	155	148	138	148	132	136
Age (yr)	45	54	59	64	54	48	66	65	50	42	56	58

$$t_{0.01(10)} = 3.169, t_{0.05(10)} = 2.228 \quad 10$$

5. (a) Write the application of Ms-Word in Bio-Med. Lab. Science.

- (b) State the use of internet in Bio-Medical Science.

5+5

6. (a) What are the advantages of computer ?

- (b) Write the limitations of computer.

- (c) What is secondary memory of Computer ?

4+4+2