Roll No. Total No. of Pages : 02

Total No. of Questions: 09

B.Sc - Honours (Microbiology) (Sem.-3)
BIOSTATISTICS

Subject Code: BSMB308-19

M.Code: 90374

Date of Examination: 21-12-22

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly:

- a) What do you mean by parametric test?
- b) Define biostatistics.
- c) What do you mean by standard deviation?
- d) Define skewness and kurtosis.
- e) Define t-test
- f) Calculate mean, median and mode for 30, 16, 20, 16, 18, 14, 24, 18
- g) Define variables.
- h) Define Shannon-weaver index.
- i) How do you calculate range?
- j) What do you mean by statistical power?

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SECTION-B

- 2. Explain chi-square test- goodness of fit.
- 3. Define paired sample t-test. Write its significance in research.
- 4. Define errors. Give its importance in research.
- 5. Find out the coefficient of correlation from the following data:

6. Define simple linear regression. Add a note on spearman's correlation.

SECTION-C

- 7. Define hypothesis. Write a detailed note on hypothesis testing.
- 8. Define Mann-Whitney U Test. Write its significance in research. Explain with example.
- 9. To carry out one factor analysis of variance of the given observations of three different methods of teaching. Find out the mean difference between the groups and state the hypothesis, [alpha level: 0.05, F= 5.41]

Online Teaching	Teaching through	Traditional
	Multimedia device	Method
5	5	6
3	4	4
4	6	4

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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