Roll No. Total No. of Pages: 02

Total No. of Questions: 11

M.Sc. (Biotechnology) (2018 Batch) (Sem.-3)

BIOSTATISTICS

Subject Code: MBT-302 M.Code: 76729

Date of Examination: 14-12-22

Time: 3 Hrs. Max. Marks: 70

INSTRUCTIONS TO CANDIDATES:

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains SEVEN questions carrying SIX marks each and students have to attempt any FIVE 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) Define biostatistics.
- b) Define mode with example.
- c) What do you mean by degrees of freedom?
- d) Define precision
- e) A book contains 100 pages. If you open book randomly, what is the probability that you will get page number 90?
- f) Define distribution
- g) Give example for non-parametric tests
- h) Define rank correlation
- i) Define variance
- i) Write the formulae for Karl Pearson coefficient of correlation.

1 M-76729 (S38)-353

SECTION-B

- 2. Write a note on Correlation.
- 3. What do you mean by Normal distribution?
- 4. The number of defects per unit in sample of 330 units of manufactured product was found as follows:

No of Defects	0	1	2	3	4
No of Units	214	92	20	3	1

Fit a poision distribution to the data (Given $e^{-0.439} = 0.6447$)

- 5. Calculate Mean, Median and Mode by taking your own data.
- 6. Explain t-Test importance in biostatistics. Write the various formulae for standard deviation used in t-Test.
- 7. In an anti malarial campaign particular city, quinine was given to some people. Discuss the usefulness of quinine checking malaria by using chi square test

Observed:	20	220	792	2216
Expected:	60	180	752	2256

(Table value is 3.84)

8. Write a note on graphical presentation.

SECTION-C

- 9. Discuss in detail Chi square test and randomised block design
- 10. Perform one way Analysis of variance for the given following data $F_{0.05}(2, 6)$ is 5.14.

A	В	C
5	4	3
6	5	7
7	3	5

11. Write a note on any two: a) Design of experiments b) Probability c) Regression.

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.

2 | M-76729 (S38)-353