Exam. Code : 107402
Subject Code : 1751

B.Sc. (Biotechnology) 2nd Semester

BIOMATHEMATICS AND BIOSTATISTICS

Paper—BTL–155

Time Allowed—2 Hours] [Maximum Marks—40

Note :— There are **EIGHT** questions of equal marks. Candidates are required to attempt any **FOUR** questions.

1. (i) Write a note on scientific notation of expressing numbers.
   (ii) What do you mean by rounding off a number ? Explain with examples.
2. (i) Discuss the concept of Population or Universe.
   (ii) What are various types of graphical representation of data ?
3. Find arithmetic mean from the following data :

Marks	5–15	15–25	25–35	35–45	45–55	55–65
No. of students	5	8	20	17	6	4

4. Calculate standard deviation from actual mean of the wages (per day) obtained, of workers of a company :
   100, 110, 120, 130, 140, 150

5. Find correlation coefficient of the following data :

X	3	4	8	10	1	5	7
Y	10	12	11	10	15	16	9

6. (i) What is the use of regression analysis ?
   (ii) What is goodness of fit ? Explain.
7. What is Normal Distribution ? Discuss the properties of Normal Distribution.
8. Explain the concept of Tests of Significance, Null Hypothesis and Alternative Hypothesis.