

20/12/23



School of Biological Sciences  
Doon University  
Dehradun, Uttarakhand  
Question Paper: Final-Semester Examination  
Session: July 2023 – Dec 2023

**B.Sc. Biological Sciences (First Semester)**

**Course: BIostatistics**

**Course Code: BSG101**

**Total Marks: 30**

**Maximum Time: 3:00 Hrs**

**PART I Give answers to any six questions:**

**(Marks: 1 × 6 =**

**6)**

1. Write down the types of Data?
2. What is Mean, median and mode?
3. What is dispersion?
4. Define Probability with example?
5. Write about Poisson Distribution?
6. What is data processing?
7. Difference between skewness and kurtosis?

**PART II Give answers to any four questions:**

**(Marks: 3 × 4 =**

**12)**

8. What is correlation. Describe the types of correlation?
9. What is Regression. Describe the types of Regression?
10. Describe the different mode of data collection?
11. Write how many types does a statistical data represent graphically?
12. Describe the usefulness of statistics in Biological sciences with example?

**PART III Give answers to any two questions:**

**(Marks: 2 × 6 =**

**12)**

13. Calculate Pearson correlation coefficient from the given data

X	12	18	16	15	12	10	20	17
Y	6	10	9	8	9	8	12	10

14. A bag contains 6 white and 4 black balls .2 balls are drawn at random. Find the probability that they are of same colour.

15. For the following data, determine the mean and standard deviation:

Class Interval	0-10	10-20	20-30	30-40	40-50	50-60
Frequency	27	10	7	5	4	2

