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**6 SEM TDC DSE BOT (CBCS) 4 (H)**

**2 0 2 2**

( June/July )

**BOTANY**

( Discipline Specific Elective )

( For Honours )

Paper : DSE-4

( **Biostatistics** )

Full Marks : 53  
Pass Marks : 21

Time : 3 hours

*The figures in the margin indicate full marks  
for the questions*

1. Answer the following in brief : 1×5=5
- (a) In statistical table row heading is called as \_\_\_\_\_.
  - (b) What are variables?
  - (c) What is Poisson distribution?
  - (d) Define regression.
  - (e) What is range?

( 2 )

2. Write short notes on any *two* of the following : 3×2=6

(a) Correlation coefficient

(b) t-test

(c) Frequency ogive

3. Write explanatory notes on any *three* of the following : 5×3=15

(a) Histogram

(b) A typical table

(c) Chi-square test

(d) Systematic sampling

4. What is geometric mean? Write down its merits and demerits. 2+3=5

5. Enlist the differences between correlation and regression. 5

6. What is biostatistics? Write down its applications in biological sciences. 2+5=7

Or

Give a detailed account on sampling methods. 7

( 3 )

7. Define mean, median and mode. Calculate the mean, median and mode of the data given below : 3+7=10

<i>Class interval</i>	<i>Frequency</i>
10-25	2
25-40	3
40-55	7
55-70	6
70-85	6
85-100	6

Or

What are primary and secondary data?  
Explain the different methods for collection of data. 4+6=10

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