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?

(_Turn Over_)

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

(Continued)

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

Class interval	Frequency
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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