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Exam. Code : 107402 Subject Code : 1841

B.Sc. (Bio Technology) 2nd Semester BIOSTATISTICS Paper—BT-5

Time Allowed—3 Hours] [Maximum Marks—40

Note :- Attempt **FIVE** questions in all selecting at least one from each Section. Show all the calculations clearly if required. Attempt all the parts of a question together. All questions carry equal marks.

SECTION-A

- 1. Calculate variance of the following data : 2, 4, 6, 8, 10.
- 2. Calculate mean and standard deviation of the following data : 2, 2, 2, 2, 2

SECTION-B

- 3. Write notes on :---
 - (a) Addition law of Probability
 - (b) Bayes theorem.
- 4. Explain :—
 - (a) Conditional Probability
 - (b) Independent events.

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SECTION-C

- 5. With examples differentiate between linear correlation and regression.
- 6. Determine correlation between X and Y :

X	Y
2	6
4	4
6	2 10 000 000



- 7. What is Chi square test ? How is it used for association of attributes ?
- 8. Explain Null and alternate hypothesis.

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