# Exam. Code : 107402 <br> Subject Code : 1841 

## B.Sc. (Bio Technology) $2^{\text {nd }}$ 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 |

## SECTION-D

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