

B.Sc. (Bio Technology) - 2nd Semester (old sylb 2019-20)
(2522)

Paper: BT-5 Biostatistics

Time Allowed: 3hrs.

Max. Marks: 40

Note: Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any section. All questions carry equal marks.

Section-A

1. Calculate arithmetic mean from the following data:

X:	10	20	30	40	50	60
f:	6	10	14	7	2	1

2. Calculate Standard deviation from actual mean of the following data:

X:	10	20	30	40	50	60	70
f:	4	2	15	25	17	7	2

Section-B

3. Define Simple Event, Sure Event, Impossible Event and Complement of an event.
4. A Coin is tossed successively three times. Determine
- Probability of getting exactly two heads.
 - Probability of getting exactly two heads.

Section-C

5. Discuss different types of Correlation. Also discuss Scatter Diagram Method for studying Correlation.
6. Find two regression lines from the following data:

	X	Y
Arithmetic Mean:	26	54
S.D.	10	8

and $r=0.53$

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Section-D

7. Discuss the concept of Null Hypothesis and Alternate Hypothesis.
8. What is Chi-square test? Give applications of Chi-square test.

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