

Sr.No. 6705

Exam Code:107402

Subject Code: 7035

B.Sc. (Bio Technology) - 2nd Semester (old sylb 2019-20)
(2721)

Paper: BT-5 Biostatistics

Time Allowed: 2 hrs.

Max. Marks: 40

Note: There are EIGHT questions of equal marks. Candidates are required to attempt any FOUR questions.

1. Calculate arithmetic mean from the following data:

$X:$	5	15	25	35	45	55	65
$f:$	6	12	20	18	15	7	2

2. Calculate variance for the following data:

100, 110, 120, 130, 140, 150

3. Define Random Experiment, Sample Space, Trial and events.

4. In a single throw of two dice, find:

i) P (odd number on first die and 6 on the second)

ii) P (a total of 11)

5. Define correlation. Discuss different types of correlation.

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6. In correlation study, the following values are obtained:

	X	Y
Mean:	65	67
S.D.	2.5	3.5

Coefficient of correlation is 0.8.

Find two regression lines.

7. What is Null and Alternative Hypothesis? Explain with suitable examples.
8. Discuss "chi-square test of goodness of fit".

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