Roll No. Total No. of Pages: 02

Total No. of Questions: 18

B.Sc. (BT) (2018 Batch) (Sem.-2)
BIOSTATISTICS

Subject Code: BSBT-203-18 M.Code: 75874

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Write briefly:

- Q1. What do you understand by the term Sample?
- Q2. What do you understand by tabulation of data?
- Q3. Define Histogram.
- Q4. Define Arithmetic Mean.
- Q5. Properties of Regression co-efficients.
- Q6. Define Probability.
- Q7. What do you understand by Binomial Distribution?
- Q8. Probable error.
- Q9. What is Interpolation?
- Q10. Curve smoothening.

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SECTION-B

- Q11. What is Correlation? What are various types of correlation?
- Q12. Calculate Spearsman Rank Correlation co-efficient from the following data:

X	15	20	28	12	40	60	20	80
Y	40	30	45	30	15	15	35	55

- Q13. What are Experimental Designs? Explain the basic principles of experimental designs.
- Q14. Write a note on Derivative Curves.
- Q15. Find a fourier series to represent $x x^2$ from $x = -\pi$ to $x = \pi$.

SECTION-C

Q16. Obtain the two regression equations and calculate co-efficient of correlation from the following data:

	X	91	97	103	121	67	124	51	73	111	57
Г	Y	97	75	69	97	70	91	39	61	80	47

Q17. (a) The mean yield of two sets of plots and their variability are as given below. Examine whether the difference in the variability in yields is significant at 5% level of significance.

Variables	Set of 40 plots	Set of 60 plots
Mean per Plot	1258 lbs	1243 lbs
Standard deviation per plot	34	28

- (b) Evaluate $J = \int_0^1 e^{-x^2} dx$ by means of (2) with n = 10.
- Q18. State the properties of determinants.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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