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**Course: B.Voc, Program: Medical Laboratory Technology**  
**Subject: Basics of Biostatistics, Code: LSH-706**  
**Semester: VI**

**Time: 03 Hours****Max Marks: 35****Instructions to the Students:**

1. This Question paper consists of two Sections. All sections are compulsory.
2. Section A comprises 10 questions of short answer type. All questions are compulsory. Each question carries 1 mark.
3. Section B comprises 8 long answer type questions out of which students must attempt any 5. Each question carries 5 marks.
4. Do not write anything on the question paper.

Q. No.	SECTION –A (SHORT ANSWER TYPE QUESTIONS)	Marks
1.	a) Define arithmetic mean.	(1)
	b) Find the mode for following list of values: 56, 54, 55, 56, 52, 56, 53, 51.	(1)
	c) What do you mean by linear regression?	(1)
	d) What is normal distribution?	(1)
	e) Find the mean for following list of values: 13,18,13,14,21, 20,17.	(1)
	f) Define rank correlation.	(1)
	g) What is pie chart?	(1)
	h) What do you understand by probability?	(1)
	i) What is sample?	(1)
	j) What do you mean by fitting regression lines?	(1)
	<b>SECTION –B (LONG ANSWER TYPE QUESTIONS)</b>	
2.	What are the applications of Biostatistics in biomedical science?	(5)
3.	Write a note on correlation coefficient.	(5)

4. The test score of ten students enrolled in MFN-009 course is given below: (5)  
30, 28, 21, 15, 18, 14, 24, 28, 17, 20.  
Calculate mean, median, mode, standard deviation, variance and range for the above data.
5. Compute product moment correlation for the following data: (5)
- |   |    |    |    |    |    |    |    |    |
|---|----|----|----|----|----|----|----|----|
| X | 45 | 40 | 65 | 55 | 42 | 31 | 35 | 35 |
| Y | 24 | 16 | 15 | 42 | 40 | 37 | 27 | 42 |
6. What are randomized clinical trials? (5)
7. Explain XY- Scatter diagram and special chart with the help of example. (5)
8. Discuss about the various properties of the standard normal distribution. (5)
9. Explain Boxplot and Histogram with the help of example. (5)

===END OF PAPER===