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Total No. of Printed Pages: [01]

Total No. of Questions: [13]

B. Pharmacy (Semester – 8th)
BIOSTATISTICS AND RESEARCH METHODOLOGY
Subject Code: BP801T
Paper ID: [17170140]

Time: 03 Hours

Maximum Marks: 75

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 9 questions of 5 marks each. The student has to attempt any 7 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A

(2 marks each)

Q1. Attempt the following:

- a) Find the median of the following:- 4,17,77,25,22,23,92,82,40,24,14,12,67,23,29
- b) Weights in mg of tablets in a sample data are 110,122,109,121,105 Find out the Sample mean?
- c) Calculate range for the following data values. 45,55,63,76,67,84,75,48,62,65
- d) Find mode :- 12,15,12,18,20,18,18,15,12
- e) Define Null Hypothesis.
- g) Find the standard deviation of the following data- 2,4,6,8,9,10,13
- h) Define Quasi Experimental Research Design
- i) Write the uses of graphs in health research.
- j) Write the role of statistics in health research.
- k) Write the merits of arithmetic mean.

Section – B

(5 marks each)

- Q2. Define Measure of Dispersion and write its types.
- Q3. What is Non - Parametric tests? Mention its types.
- Q4. Calculate the correlation coefficient of the given data.

X	12	15	18	21	27
Y	2	4	6	8	12

- Q5. Write various types of Graphs
- Q6. Write the role of statistics in health research
- Q7. Difference between paired and unpaired test
- Q8. Define chi square test and write its application.
- Q9. Difference between Correlation and Regression
- Q10. Explain factorial design and write its advantage

Section – C

(10 marks each)

- Q11. What are the Sampling methods? Explain various methods in detail.
- Q12. What is Experimental Research Design? Write its type and importance.
- Q13. Write different parts of Research Report.