Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination - 12-Jan-2022

Time: Three Hours   **Max. Marks: 80 Marks**

RESEARCH METHODOLOGY AND BIOSTATISTICS (RS-5)
Q.P. CODE: 2751

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any One)   **1 x 10 = 10 Marks**

1.   Define tabulation. Explain the important types of graphical representation
2.   Calculate the mean, median and mode for the following data – 40, 45, 45, 40, 50, 50, 55, 55, 45, 50

SHORT ESSAYS (Answer any Eight)   **8 x 5 = 40 Marks**

3.   Write a note of important parametric tests used in statistical analysis
4.   Discuss about questionnaire method of data collection
5.   Write a note on descriptive statistics
6.   Differentiate between multivariate and bivariate analysis
7.   Enumerate the advantages of case study method
8.   Discuss interview as a techniques of data collection
9.   Describe with examples the various scales of measurement
10. Explain the steps involved in processing data
11. What are the guiding considerations in the construction of questionnaire? Explain
12. What is standard error? Write a note on the significance of standard error in sampling analysis

SHORT ANSWERS   **10 x 3 = 30 Marks**

13. Distinguish between type I and type II error
14. Define kurtosis and skewness
15. What is research hypothesis?
16. Define ration scale
17. Write a note on frequency polygon
18. What is a pilot's survey?
19. Illustrate a two group simple randomized design
20. Differentiate between cluster and area sampling
21. Write a note on complex tabulation
22. What is sampling frame?

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