Rajiv Gandhi University of Health Sciences, Karnataka
IV Year B.P.T. Degree Examination - 07-Jun-2024

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 research and describe in detail the various research design process and add a note on feature of good research design
2. Define a sample and describe in detail different types of sample design and the criteria for selecting the sample

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

3. Explain the procedure of tabulation of data

4. Explain the role of computers in physiotherapy research

5. Explain the characteristics of normal probability curve

6. Write a note on importance of computers in Physiotherapy Research

7. Define hypothesis. Explain briefly the basic concept concerning testing of hypothesis

8. Explain the difference between descriptive and inferential statistics

9. Describe briefly the various methods of diagrams and histograms used in data analysis

10. Describe the criteria for good samples and what is sample design error?

11. Describe briefly the measurement scales used in research and add a note on errors in measurement

12. What is research problem and steps involved in review of literature?

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

13. What is sampling frame?

14. Difference between mean, median and mode

15. List the difference between nominal and ordinal scale

16. List the difference between prospective and retrospective study

17. List the difference between one tailed and two tailed hypothesis

18. What is type I and type II error

19. What is Skewness of data?

20. Write a note of ANOVA

21. What is case control study?

22. List four problems faced by researches in India

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