Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination - 05-Nov-2026

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. Describe in brief the different steps involved in a research process
2. Define biostatistics. Explain the characteristics of biostatistics

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

3. Write a note on basic principles of experimental design
4. Explain the measures on central tendency
5. Write a note on stratified sampling design
6. Write a note on importance of computers in physiotherapy research
7. Write a note on Chi Square test
8. Write a note on normal probability curve
9. Enumerate the merits and demerits on interview method
10. Write a brief note on different types of analysis of data and significance of each
11. Enumerate the important non-parametric tests
12. State the reasons why sampling is used in the context of research studies

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

13. Distinguish between confidence level and significance level
14. What is sampling error?
15. Write a note on importance of tabulation
16. Write a short note on ANCOVA
17. Define simple random sampling
18. Enumerate any two objectives of research
19. Differentiate between one tailed and two tailed test
20. Define mode
21. Indications of using a paired 't' test in statistics
22. Write note on Qualitative research

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