

# Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination - 01-Dec-2023

Time: Three Hours



Acharya's NR Institute of  
Physiotherapy Library

Max. Marks: 80

## 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. What is hypothesis? Explain the testing methods of hypothesis
2. Discuss about analysis of variance and covariance

### SHORT ESSAYS (Answer any Eight)

**8 x 5 = 40 Marks**

3. What are the features of a good research design?
4. Explain complex random sampling research design
5. Differentiate rating versus ranking scale
6. Explain diagnostic research
7. Merits and demerits of personal interview and telephone interview
8. Sources of error in measurement
9. Ungrouped versus grouped mean
10. Types of variables
11. Cumulative frequency curve
12. Types of analysis

### SHORT ANSWERS

**10 x 3 = 30 Marks**

13. Define Quantitative research
14. Motivation in research
15. What is Operational design?
16. Define Sampling unit
17. What is Interval scale?
18. What is Structured observation?
19. What is Two-tailed test?
20. What is Histogram?
21. What is Meaning of mode?
22. What is Standard deviation?

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