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Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.P.T. Degree Examination - Aug 2013

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

RESEARCH METHODOLOGY & BIOSTATISTICS
(RS-3 & RS-4)

Q.P. CODE: 2713

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

LONG ESSAYS (Answer any Two)   **2 x 10 = 20 Marks**

1. Define research. State the basic principles and importance of research in physiotherapy practice
2. Range of movement of 10 frozen shoulder patients were 38,42,45,36,40,44,40,45,34 and 36. Compute Mean, Median and Mode
3. Explain in detail about graphical presentation of data

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

4. Define biostatistics and discuss its importance
5. Explain the characteristics of good research design
6. Explain the assumptions and characteristics of hypothesis
7. Explain about the measurement scales
8. "Mean is a good average" – Justify
9. Explain about pie diagram
10. Basic principles of experimental design
11. Normal probability curve
12. Computer and its importance in physiotherapy research
13. Explain about Skewness and Kurtosis

SHORT ANSWERS   **10 x 2 = 20 Marks**

14. Mode
15. Standard deviation
16. Ordinal data
17. Simple random sampling
18. Questionnaire and Schedule
19. Null hypothesis
20. Assumptions in ANOVA
21. Qualitative research
22. Simulation research
23. Histogram

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