

**Rajiv Gandhi University of Health Sciences, Karnataka****IV Year B.P.T. Degree Examination - OCT-2019****Time: Three Hours****Max. Marks: 80 Marks****RESEARCH METHODOLOGY & 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 Two)****2 x 10 = 20 Marks**

1. Define probability. Explain the important sampling distributions.
2. A sample of 40 bankers with work related chronic neck pain revealed the following data.

Neck disability Index (NDI)	0-20	20-40	40-60	60-80	80-100
Number of workers	7	8	12	9	4

Calculate mean, median and mode.

3. Explain the problems encountered by researches in India.

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

4. Explain the characteristics of good research.
5. Explain the stratified random sampling technique.
6. Explain about divergence from normality.
7. Explain the basic principles experimental design.
8. Write about processing and analyzing data.
9. Explain the method of collecting primary data. Add note on its merits and demerits.
10. How will you draw a pie diagram? Explain with suitable example.
11. Explain the role of computers in physiotherapy research.
12. Explain the steps in testing of hypothesis.
13. Explain the steps in testing of hypothesis.

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

14. Histograms.
15. Sampling units.
16. Randomized controlled trials.
17. Convenience sampling.
18. Artificial research,
19. One tailed and two tailed test.
20. Any two objective of research.
21. Necessity of defining research problem.
22. Frequency polygon.
23. Level of significance.