Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – APRIL 2015

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. Describe the features of a good research design.
2. Describe basic principles of graphical representation along with types of diagrams.
3. Describe various measures of Central tendency and how are they related with each other.

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

4. Motivation in research.
5. Statement of Research problem.
6. Factors to be considered in the preparation of questionnaire.
7. Importance of the study of statistics.
8. Uses of Analysis of Variance (ANOVA) with an example from physiotherapy situation.
9. Computer application in research.
10. Normal Probability curve.
11. Chi-Square test for 2X2 contingency table.
12. Different measures of scales with an example to each.
13. What is Descriptive statistics?

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

14. What is hypothesis?
15. When do you use Paired 't' – test?
16. Describe Quartiles.
17. Analysis of Co-Variance (ANACOVA)?
18. Define Simple Random Sampling.
19. Define Co- efficient of variation.
20. Differences between Bar diagram and Histogram.
21. Mention various types of Mean.
22. Define probability of an event.
23. Sampling variation.

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