

Rajiv Gandhi University of Health Sciences, Karnataka
IV Year Pharm-D / I Year Pharm-D (Post Baccalaureate) Degree Examination – MAY
2016

Time: Three Hours

Max. Marks: 70 Marks

BIOSTATISTICS AND RESEARCH METHODOLOGY

Q.P. CODE: 2870

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. What are the different steps involved in research process.
2. Explain different methods of describing the data using measures of dispersion.
3. Explain the two way analysis of variance.

SHORT ESSAYS (Answer any six)

6 x 5 = 30 Marks

4. a) Write a note on Epi info software.
b) Define type I and Type II errors.
5. Discuss the relative risk and attributed risk assessment.
6. Discuss the interventional studies.
7. What is standard deviation? Can this be used to compare the variation in two variables with different unit of measurements?
8. Hypothesis testing
9. What are the applications of Student's t-test?
10. Explain the statistical power of a study.
11. What is linear regression? How is it useful in pharmaceutical sciences?

SHORT ANSWERS

10 x 2 = 20 Marks

12. Write a note on spearman's correlation coefficient.
13. Wilcoxon rank sum test.
14. Arithmetic mean.
15. Null hypothesis.
16. What is primary and secondary data?
17. Semi logarithmic plots.
18. Mode.
19. Frequency polygon.
20. Labeling of graphs.
21. Degrees of freedom.
