

Rajiv Gandhi University of Health Sciences, Karnataka
VIII Semester Bachelor of Occupational Therapy Degree Examination – 13-May-2025

Time: Three Hours

Max. Marks: 100

BIostatistics AND RESEARCH METHODOLOGY – RS

Q.P. CODE: 3442

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 variability. Discuss ANOVA test with example
2. Define measures of location. Explain briefly
3. Describe variability. Discuss med median mode with examples

SHORT ESSAYS (Answer any Ten)

10 x 5 = 50 Marks

4. Discuss normal distribution of a statistics
5. Analyse measures of vital statistics in shortly
6. Describe computers I medicine shortly
7. Characteristics of good sampling
8. General rules of probability
9. Utility of probability
10. Solve the problem – A sample of 100 sugarcane is taken from a field. The mean height is 164 inches and the standard deviation 6 inches. Can it be reasonably regarded that the sugarcane mean height 166 inches
11. Impotence of life table in research methodology
12. Importance of sampling in research methodology
13. Describe 5 terminologies used in probability
14. Compare between t-test and Z-test
15. Solve this problem – what is the probability of occurrence of head in one flip of coin

SHORT ANSWERS (Answer any Ten)

10 x 3 = 30 Marks

16. What is bio statistics and its uses?
17. Advantages of sampling
18. Define sample space
19. Discuss factors affecting size of sample
20. Advantages of multi stage random sampling
21. What is human factors in medical rehabilitation brief shortly?
22. Discuss characteristics of good sampling
23. Define LOGRANK TEST in research
24. Discuss methods of a research study
25. Describe T - test
26. Which probability is called classical probability?
27. Discuss learning environment
