

Rajiv Gandhi University of Health Sciences, Karnataka
II Semester Bachelors in Hospital Administration Degree Examination - 13-Jun-2024

Time: Three Hours

Max. Marks: 80 Marks

BIO STATISTICS (RS)
Q.P. CODE: 3234
(QP contains two pages)

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. Calculate standard deviation for 2,3,4,5,6
2. What is correlation? Briefly explain the different methods of estimating correlation
3. Explain the benefits of graphical presentation of data and give three examples

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

4. Mr. Raju paid Rs.500 for house rent, Rs.300 for medicines and Rs.200 for petrol in a month. Draw a Pie chart to present his expenses
5. Compare Paasche's method and Fischer's method of calculating index numbers
6. Explain correlation analysis. Give the formulae for Karl Pearson's Correlation coefficient
7. Find the mode of - 2,3,4,3,2,4,5,3,2,6,5,3,4,7,6,5,3,7,3,1
8. Explain Spearman's rank correlation and its usage
9. Describe the scope of biostatistics
10. Explain time series analysis and its benefits
11. List out the measures of central tendency and comment on their properties
12. Find the median class for the following data:

Age	No. of patients
10-15	12
15-20	22
20-25	7
25-30	5

13. How are index numbers calculated? What are the uses of index numbers?

SHORT ANSWERS (Answer any ten)

10 x 2 = 20 Marks

14. Properties of median
15. Interquartile range
16. Regression analysis
17. Laspear's method of calculating index numbers

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18. Define mode
19. List out the measures of dispersion
20. Define Biostatistics
21. Coefficient of variation
22. Weighted mean
23. Line graphs
24. Histogram
25. Price index
