

Rajiv Gandhi University of Health Sciences, Karnataka

II Semester Bachelors in Hospital Administration Degree Examination - 30-Oct-2025

**Time: Three Hours
80**

Max. 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. What is Graph and Diagram? Explain its types with example
2. The height (x cms) and weight (y kgs) of 6 students are as follows. Obtain the two regression equations. Also find the expected height of a person whose weight is 60 kgs

X	153	157	168	160	170	163
Y	48	50	50	49	54	5

3. What is index number? Explain construction and classification of index number

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

4. Following are the height of 5 children. Find the standard deviation height (cms): 130, 137, 136, 142, 135
5. Draw histogram and then obtain frequency polygon from histogram

Daily wages (Rs)	100-150	150-200	200-250	250-300	300-350	350-400
No. of workers	7	19	27	15	12	8

6. Write a note on classification and tabulation of data
7. For the following distribution of heights of students find the median

Height (cms)	130-139	140-149	150-154	155-159	160-164	165-169	170-179
No. of students	2	3	11	22	21	17	9

8. Write a note on rank correlation
9. What is an average? Explain different types of averages
10. What are the different methods used to construct index number?
11. Describe moving average for fitting trends
12. Write a note on time series
13. Write a note on price index number

SHORT ANSWERS (Answer any ten)

10 x 2 = 20 Marks

14. Define frequency density
15. Secular trend
16. What is primary and secondary data?

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17. Scatter diagram
18. What is frequency curve?
19. Probable error
20. Any two use of time series
21. What is base year and current year?
22. Weighted averages
23. Define range
24. What is meant by coefficient of correlation?
25. Define Biostatistics
