Rajiv Gandhi University of Health Sciences, Karnataka

II Semester Bachelors in Hospital Administration Degree Examination - 22-May-2025

Time: Three Hours Max. Marks: 80

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)

 $2 \times 10 = 20 \text{ Marks}$

- Define Statistics. Discuss the uses of statistics
- 2. Define Median. Calculate median for the following data

Age	20-25	25-30	30-35	35-40	45-50	>50
No. of patients	100	150	200	50	25	5

3. What is correlation? Calculate correlation between X and Y and interpret the results

X	10	12	8	6	12	10
У	20	25	15	15	15	25

SHORT ESSAYS (Answer any Eight)

 $8 \times 5 = 40 \text{ Marks}$

- 4. Mention advantages and disadvantages of diagrams
- 5. Mention different types of graphs. Explain construction of histogram. How to construct frequency curve?
- 6. What is an "Average"? Mention merits and demerits of arithmetic mean
- 7. What do you mean by measures of dispersion? Mention different types of measures of dispersion
- 8. Calculate mean deviation for the data regarding age of 8 patients Age (yrs): 40, 50, 60, 30, 20, 40, 30, 60
- 9. Explain different types of correlation
- 10. Explain components of time series
- 11. Discuss utilities of time series analysis
- 12. Discuss various steps in construction of index number
- 13. Discuss uses and limitations of index number

SHORT ANSWERS (Answer any ten)

 $10 \times 2 = 20 \text{ Marks}$

- 14. Two examples for quantitative data
- 15 Tabulation
- 16. Multiple bar diagram
- 17. Frequency distribution

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- Inclusive and exclusive class interval
- 19. Quartile deviation and coefficient of quartile deviation
- 20. Rank correlation
- 21. Regression equations
- 22. Mean = 40 and standard deviation = 4, find coefficient of variation
- 23. Price index no
- 24. Fisher index no
- 25.

