Rajiv Gandhi University of Health Sciences, Karnataka

II semester Bachelors in Hospital Administration Degree Examination – OCT-2019

Time: Three Hours   **Max. Marks: 80 Marks**

Business Statistics

Q.P. CODE: 1306

(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. Discuss the different ways of graphically representing the data with examples.

2. What do you understand by measures of central tendency? Explain the different measures of central tendency used in statistics.

3. Define measures of dispersion. Calculate Standard Deviation and Coefficient of Variation for the following data:

Age (Years)	No. of Patients
10-20	5
20-30	10
30-40	15
40-50	4
50-60	1
Total	**35**

SHORT ESSAYS (Answer any Eight)   **8 x 5 = 40 Marks**

4. Write a note on correlation and regression.

5. What is index number? Explain briefly the classifications of index number.

6. What is time series? Describe types of trends in time series analysis.

7. Define correlation. Calculate Karl Pearson Correlation Coefficient for the following data regarding sales and expenses. Interpret the result.

Expenditure	39	65	62	90	82	75	25	98	36	78
Sales	47	53	58	86	62	68	60	91	51	84

8. What are considerations in constructing index numbers? List all the different methods of index numbers.

9. Write a note on rank correlation.

10. What do you mean by Statistics? Explain functions, scope and limitation of Statistics.

11. Describe the methods of tabulation of data.

12. Write a note on Coefficient of Variation.

13. Describe briefly the concept of moving average and least square method.

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SHORT ANSWERS (Answer any ten)   **10 x 2 = 20 Marks**

14. What do you mean by base year in index numbers? Give one example.

15. Write any two differences between diagram and graph.

16. What is weighted average method?

17. What is time series? Give any one example.

18. Write the differences between Correlation and Regression.

19. What is Quartile?

20. What is Rank correlation?

21. Why Statistics is important in hospital administration?

22. What is Fischer's method in Index numbers?

23. What is bar diagram? Draw a neat labeled diagram with example.

24. Draw a neat labeled diagram of pie chart with different services provided in hospital as an example.

25. What is range?

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