Rajiv Gandhi University of Health Sciences, Karnataka

II semester Bachelors in Hospital Administration Degree Examination – MAY 2016

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

Business Statistics
Q.P. CODE: 1306

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. Which are the methods used for summarization of data? Explain with examples.

2. What are the methods used for smoothening of data in Time series analysis?

3. Describe methods of graphical presentation of data.

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

4. Describe calculation of Index numbers by Paasche's method.

5. Explain the limitations of Index Numbers.

6. Calculate the mean and standard deviation for the following data on waiting time in minutes at reception counter in a hospital on a sample of ten days.

5	8	6	7	7	8	11	7	6	5

7. Describe Spearman's Rank correlation coefficient and its uses.

8. Describe the scope of Statistics in Hospital administration.

9. Describe limitations of Statistics.

10. Describe the method of forecasting using least square technique.

11. Describe briefly uses of statistical methodologies in hospital administration.

12. From the following data, calculate correlation co-efficient.
    $\Sigma(x - \bar{x})^2 = 1477508$, $\Sigma(y - \bar{y})^2 = 76388$, $\Sigma\{(x - \bar{x}) * (y - \bar{y})\} = 197031$.

13. What are the information needed for calculation of Index numbers?

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

14. Geometric Mean

15. Market in calculation of Index numbers

16. Secular trend

17. Moving averages

18. Scatter diagram

19. Bar diagrams

20. Bio-Statistics and Business Statistics

21. Weighted averages

22. Regression co-efficient

23. Co-efficient of variation

24. Quartiles

25. Mean deviation

*****