**B.Sc. DEGREE EXAMINATION, NOVEMBER 2016.**

**I YEAR — I SEMESTER**

**Major Paper I — DESCRIPTIVE STATISTICS**

**Time : 3 hours Max. Marks : 60**

**SECTION A — (10 × 1 = 10 marks)**

**Answer any *TEN* questions.**

1. State any two methods of collecting secondary data.
2. Mention any two limitations of statistics.
3. What is tabulation of data?
4. State any two diagrammatic presentations of data.
5. What do you mean by kurtosis?
6. Write the formula for geometric mean for a continuous series.
7. Give any two methods of studying correlation coefficient.
8. State the regression equation of *X* on *Y.*
9. Define positive association of attributes.
10. State Yule’s coefficient of association formula.
11. Define the term dispersion.
12. Define moments.

**SECTION B — (5 × 4 = 20 marks)**

**Answer any *FIVE* questions.**

1. Discuss the functions of statistics.
2. Explain the different types of classification of data.
3. Calculate mean deviation for the following data.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| *X* | *5* | *15* | *25* | *35* | *45* | *55* | *65* |
| *F:* | *8* | *12* | *10* | *8* | *3* | *2* | *7* |

1. Compute correlation coefficient for the following data.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *X* | *15* | *18* | *20* | *24* | *30* | *35* | *42* | *50* |
| *Y* | *85* | *93* | *95* | *105* | *120* | *130* | *150* | *160* |

1. Discuss consistency of data and the conditions for consistency of data.
2. Describe the properties of regression coefficient.
3. Explain the concept of dispersion with an example.

**SECTION C — (3 × 10 = 30 marks)**

**Answer any *THREE* questions.**

1. Explain about the different types of collecting primary data.
2. Explain the procedure for plotting Ogives with an example.
3. Describe about skewness and its different types.
4. Discuss the need of studying regression analysis and explain the two equations.
5. Describe about the association of attributes and its various types of association.

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