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EXAMINATION MAY 2014

B.B.A.(3rd Sem.)

Business Statistics

SUBJECT CODE: BB-304

Paper I.D: {C-0216}

Time: 03 Hours

Maximum Marks: 60

Instructions to candidates:

- 1) Section –A is compulsory
- 2) Attempt any four questions from section -B

SECTION -A

(10x2=20)

Q.1. Write short notes on

- a) Less than and More than Ogives.
- b) Frequency Polygon.
- c) Meaning of Dispersion
- d) Three properties of a good measure of Central Tendency.
- e) Properties of Standard Deviation.
- f) Why there are two Regression lines?
- g) Any three problems in the construction of Index Numbers.
- h) Baye's Theorem.
- i) Five characteristics of Normal Distribution.
- j) Seasonal Variations.

SECTION- B

Q.2 Calculate Mean, Median and Geometric Mean of the following data:

(10)

| | | | | | | |
|--------------------|----|----|----|----|----|----|
| Mid Value | 15 | 25 | 35 | 45 | 55 | 65 |
| Number of students | 8 | 12 | 9 | 15 | 10 | 6 |

Q.3. Which factory has a more consistent wage structure?

(10)

| | | | | | | |
|--------------------------------|-------|-------|-------|-------|-------|-------|
| Daily Wages | 10-15 | 15-20 | 20-25 | 25-30 | 30-35 | 35-40 |
| Number of workers in Factory A | 15 | 30 | 44 | 60 | 30 | 21 |
| Number of workers in Factory B | 25 | 40 | 60 | 35 | 20 | 10 |

Q.4. Calculate Karl Pearson's Coefficient of Correlation between Rainfall and Yield and also find two Regression Equations.

(10)

| | | | | | | |
|----------|----|----|----|----|----|----|
| Rainfall | 10 | 15 | 20 | 25 | 30 | 35 |
| Yield | 8 | 12 | 15 | 20 | 6 | 9 |

Q.5. Define Time Series. What are its various components? Explain in detail.

(10)