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Total No. of Pages : 02

Total No. of Questions : 09

BBA/BBA/RD/SIM) (2018 Batch) (Sem.-2)

**BUSINESS STATISTICS**

Subject Code : BBA-201-18

M.Code : 75916

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B consists of FOUR Sub-sections : Units-I, II, III & IV.
3. Each Sub-section contains TWO questions each, carrying TEN marks each.
4. Student has to attempt any ONE question from each Sub-section.

**SECTION-A****1. Write briefly :**

- a) Primary Data
- b) Inferential Statistics
- c) Geometric Mean
- d) Standard Deviation
- e) Probability Sampling
- f) Harmonic Mean
- g) Bayes' Theorem
- h) Poission Distribution
- i) Correlation
- j) Regression



## SECTION-B

### UNIT-I

- What is statistics? Discuss its functions and scope.
- Classify and explain various sampling techniques.

### UNIT-II

- In a moderately asymmetric distribution, the mode and mean are 32.1 and 35.4 respectively. Find the value of Median.
- The following table shows the monthly expenditure of 80 students of a university on breakfast :

Expenditure (Rs.)	No. of students	Expenditure (Rs.)	No. of Students
780-820	2	530-570	13
730-770	6	480-520	9
680-720	7	430-470	7
630-670	12	380-420	4
580-620	18	330-370	2

Calculate mean, standard deviation, and coefficient of variation of above data.

### UNIT-III

- Two ladies were asked to rank 7 different types of lipsticks. The ranks given by them are as follow :

Lipsticks	A	B	C	D	E	F	G
Neetu	2	1	3	4	5	7	6
Shalini	1	3	4	2	5	6	7

Calculate Spearman's rank correlation coefficient.

- In a correlation study the following values are obtained :

	X	Y
Mean	65	67
Standard Deviation	2.5	3.5
Coefficient of Correlation	0.8	

Find the two regression equations that are associated with the above values.

### UNIT-IV

- What is probability? Explain laws of probability.
- What is Binomial distribution? Compare Normal and Poission distribution.

**NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.**