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Total No. of Questions : 09

# BBA/BBA/RD/SIM) (2018 Batch) (Sem.-2) <br> 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 Detration
e) Probability Sampling
f) Harmonic Mean
g) Bayes' Theorem
h) Poission Distribution
i) Correlation
j) Regression

## SECTION-B

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

## UNIT-II

4. In a moderately asymmetric distribution, the mode and mean are 32.1 and 35.4 respectively. Find the value of Median.
5. 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

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

| Lipsticks | $\mathbf{A}$ | $\mathbf{B}$ | $\mathbf{C}$ | $\mathbf{D}$ | $\mathbf{E}$ | F | G |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Neetu |  |  | 1 | 3 | 4 | 5 | 7 |
| Shalini |  | 3 | 4 | 2 | 5 | 6 | 7 |

Calculate Spear ${ }^{\prime}$ an's rank correlation coefficient.
7. In a correlation study the following values are obtained :

|  | $\mathbf{X}$ | $\mathbf{Y}$ |
| :--- | :--- | :--- |
| 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
8. What is probability? Explain laws of probability.
9. 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.

