Download all Notes and Sugers from StudentSuvidha.com

Roll No. Total No. of Questions : 07]

[Total No. of Pages : 02

## BBA (Sem. - $3^{rd}$ ) **BUSINESS STATISTICS** SUBJECT CODE : BB - 304 Paper ID : [C0216]

[Note : Please fill subject code and paper ID on OMR]

# Time: 03 Hours

#### Maximum Marks : 60

 $(10 \times 2 = 20)$ 

**Instruction to Candidates:** 

- Section A is Compulsory. 1)
- Attempt any Four questions from Section B. 2)

#### Section - A

### Q1)

- What are the advantages of graphical representation of statistical data? a)
- State the empirical relation between mean, median and mode. b)
- Define coefficient of variation. c)
- Differentiate between correlation and regression. d)
- What do you mean by Bayes' theorem? e)
- What are the characteristics of normal distribution? f)
- Distinguish between linear and non linear correlation. g)
- What do understand by Binomial distribution? What are its features? **h**)
  - Why is the measurement of seasonal variation called problem of averages.
- Why Standard deviation is considered to be the best in comparison with i) other measures.

J-213

i)

P.T.O.

## Download all Notes and sapers from StudentSuvidha.com

## Download all Notes and States from StudentSuvidha.com

#### Section - B

 $(4 \times 10 = 40)$ 

**Q2)** Represent the following data by means of a histogram

Weekly wages:	10-15	15-20	20-25	25-30	30-45	40-60	60-80
No.of Workers:	7	19	27	15	12	12	8

Q3) Find the average or mean deviation from the median for the following distribution.

Marks less than: 80 70 60 50 20 10 40 30 No.of students: 100 90 80 32 20 5 ♦ 60 13

- Q4) (a) A problem in statistics is given to three students A,B and C, whose chances of solving it are 1/3, 1/4 and 1/5 respectively. Find the probability that problem will be solved.
  - (b) State and prove multiplicative law of probability.
- Q5) Calculate the coefficient of correlation for the ages of husbands and wives: Age of Husband (years): 23, 27, 28, 29, 30, 31, 33, 35, 36, 39 Age of Wife (years): 18, 22, 23, 24, 25, 26, 28, 29, 30, 32
  24) Simular difference of the state of the
- *Q6*) Given the following information:
  - (a) Compute price index and quantity Index numbers for the year 2000 with 1995 as base year, using
    - (i) Laspeyre's Method
    - (ii) Paasche's Method
  - (b) Also compute Fisher's price and quantity index numbers.

Commodity		Qı	uantity	Value(Rs.)		
		1995	2000	1995	2000	
	A	100	150	500	900	
	В	80	100	320	500	
	C	60	72	150	360	
	D	30	33	360	297	

Q7) Discuss briefly the importance of time series analysis in business and economics. What are the components of Time series? Give an example of each component.

*J-213* 

Download all Notes and sapers from StudentSuvidha.com

2