

Roll No.

Total No. of Questions : 09]

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BBA (Sem. - 3rd)
BUSINESS STATISTICS
SUBJECT CODE : BBA - 304 (2012 Batch)
Paper ID : [C1167]

Time : 03 Hours

Maximum Marks : 60

Instruction to Candidates:

- 1) Section - A is Compulsory. Each question carries 2 marks.
- 2) Section - B Attempt any one question from each Unit. Each question carries 10 marks.

Section - A

- Q1)** a) Correlation
b) Primary data
c) If S.D. of a set of observations is zero, then all observations are equal. Comment
d) Calculate mode from following series 2,1,4,5,3,7,2,3,1,7.
e) Explain chain base index numbers.
f) Write the significance of Time Series Analysis
g) Write the type of classification of data.
h) From a pack of 52 cards two cards are drawn at random, find probability of getting a queen of black color.
i) Explain simple and compound events.
j) Give two algebraic properties of Harmonic mean.

Section - B

UNIT - I

- Q2)** The following are the scores of two batsmen in 10 matches

Player-A	58	59	60	54	65	66	52	75	69	52
Player-B	84	56	92	65	86	78	44	54	78	68

Calculate which player can be regarded as more consistent

OR

- Q3)** “Measures of central tendency and dispersion are complementary to each other”. Explain the statement with suitable illustrations.

UNIT - II

- Q4)** Calculate the trend values by least square method and predict the sales for 1992 taking 1986 as base year.

Year	1983	1984	1985	1986	1987	1988	1989
Sales (crores)	20	24	20	30	28	32	35

OR

- Q5)** Write a short note on :

- a) Splicing of index Number
- b) Deflating of index Number
- c) Base shifting of index numbers

UNIT - III

- Q6)** It is said that regression equation are irreversible meaning thereby that you cannot find out the regression equation of X on Y from that of Y on X. Justify your comment with special reference to principle of Least square.

OR

- Q7)** Ten competitors in a beauty contest are ranked by the judges in the following order. Find the two judges having nearest approach.

Judge-I	3	6	5	10	2	1	4	7	8	9
Judge-II	6	4	9	1	3	7	10	5	2	8
Judge-III	5	6	9	8	1	3	2	10	7	4

UNIT - IV

- Q8)** The distribution of typing mistakes committed by a typist is:

Mistakes (per page)	0	1	2	3	4
No. of pages	211	90	19	5	0

Fit a Poisson distribution.

OR

- Q9)** a) Write a note on Bayesian theorem of probability.
b) Give properties of Normal Distribution.

