

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 09

BBA (2012 & Onward Batches)
BRDM/Bachelor in Service Industry Management (SIM) (2014 Batch)
(Sem.-3)

BUSINESS STATISTICS

Subject Code : BBA-304

Paper ID : [C1167]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
- 2. SECTIONS-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) Median
- b) Range
- c) Mean deviation
- d) Positive correlation
- e) Regression line
- f) Standard error
- g) Price Index
- h) Secular trend
- i) Subjective approach to probability
- j) Addition theorem of probability

SECTION-B

UNIT-I

- 2) Explain the importance and limitations of statistics.
- 3) Calculate the mean deviation from mean for the following data :

Class interval	2-4	4-6	6-8	8-10
Frequency	3	4	2	1

UNIT-II

- 4) From the data given below, find the regression equation of marks in statistics on marks in economics.

Marks(economics)	25	28	35	32	31	36	29	38	34	32
Marks (statistics)	43	46	49	41	36	32	31	30	33	39

- 5) Explain Karl Pearson's method of calculation of correlation coefficient using examples.

UNIT-III

- 6) Calculate quantity index for 2006 with 2000 as base using
- a) Laspeyre's method
- b) Paasche's formula.

Commodity	Quantity	Units	Value in Rs	
	2000(q_0)	2006(q_1)	2000($p_0 q_0$)	2006($p_1 q_1$)
I	100	150	500	900
II	80	100	320	500
III	60	72	150	360
IV	30	33	360	297

- 7) What do you mean by time series? Explain its components in detail.

UNIT-IV

- 8) Explain the multiplication theorem of probability with examples.
- 9) Among 1000 applicants for admission to M.A. Economics course in a university, 600 were economics graduates and 400 were non-economics graduates. 30% of economics graduates and 5% of non-economics graduate applicants got admission. If an applicant selected at random is found to have been given admission, what is the probability that he/she is an economics graduate?