

## MBA I Semester Supplementary Examinations August 2015

**BUSINESS STATISTICS**

(For students admitted in 2014 only)

Time: 3 hours

Max. Marks: 60

Issue of T, F,  $\chi^2$ , Z values tables at 5% level of significance are permitted in the examination hall

All questions carry equal marks

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**SECTION – A**

Answer the following: (05 X 10 = 50 Marks)

- 1 Brief out various measures of dispersion.

(OR)

- 2 Calculate standard deviation from the following data:

Class interval	0 – 10	10 – 20	20 – 30	30 – 40	40 – 50	50 – 60	60 – 70	70 – 80
Frequency	5	7	16	27	39	53	18	45

- 3 Calculate correlation coefficient between X and Y series:

X	78	89	96	69	59	79	68	61
Y	125	137	156	112	107	136	123	105

(OR)

- 4 Discuss the concept and advantages of regression analysis.

- 5 What is probability? Brief out the significance of probability in business applications.

(OR)

- 6 Fit a binomial distribution by using direct method for the following data:

X	0	1	2	3	4	5	6	7	8
Frequency	17	64	140	210	132	75	45	56	80

- 7 Distinguish the features and purpose of ANOVA one and two way classification.

(OR)

- 8 An IQ test was conducted to 5 persons before and after they were trained. The results are given below.

Candidates	I	II	III	IV	V
IQ before training	110	120	123	132	125
IQ after training	120	118	125	136	121

- 9 Calculate Chi-Square test from the data given below:

Observed frequency	60	75	50	92	46	74	86	48	94	85
Expected frequency	68	72	43	103	63	35	94	32	75	93

(OR)

- 10 Brief out the Non-Parametric methods of statistics.

**SECTION – B**

(Compulsory Question)

01 X 10 = 10 Marks

- 11
- Problem:**

Analyze one way classification from the following data:

1	10	10	45	44	8	13	41	43
2	29	30	10	8	33	27	12	10
3	37	33	26	27	32	36	27	30
4	39	40	31	32	42	42	32	32

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