



9-12-16

School of Management
Final-Term Examination, 2016
MMS-504 – Research Methodology & Business Statistics
MBA-1st Semester

Time Allowed: 3 Hours

Maximum Marks: 50

Section-A

Q.1 Compulsory question:

(16)

The following table gives the number of good and bad parts produced by each of 3 shifts in a factory

Shift	Quality of parts produced		Total
	Good	Bad	
Day	900	130	1030
Evening	700	170	870
Night	400	200	600
Total	2000	500	2500

Is there any association between the shift and quality of parts produced? (Given- Chi-square @ 5% significance level = 5.99)

Section-B

Q.2 Write short notes on any 4 (four):-

(2.5*4=10)

- (a) Time series
- (b) Types of hypothesis
- (c) Sampling error
- (d) Types of scales
- (e) Bivariate data analysis

Section- C

Attempt all from the following

(8*3=24)

Q.3 Calculate Pearson's coefficient of correlation from the following data using 44 and 26 as the origin of X and Y respectively:

X	43	44	46	40	44	42	45	42	38	40	42	57
Y	29	31	19	18	19	27	27	29	41	30	26	10

Or

What is "Correlation"? Explain the types of correlation with examples.

Q.4 From the following data Calculate - Arithmetic mean, median and standard deviation:

Profits (Rs.)	0-10	10-20	20-30	30-40	40-50	50-60
No. of Shops	12	18	27	20	17	6

Or

What do you mean by measures of central tendency? Briefly explain the properties of mean, median and mode?

Q.5 Obtain the lines of regression lines X on Y and Y on X from the following data:

X	1	2	3	4	5	6	7	8	9
Y	9	8	10	12	11	13	14	16	15

Or

What do you mean by research process? Explain the objectives and plan of research process.