

Roll No.....

Department of Management
School of Management & Business Studies
BBA Sem V Examination, 2018
Quantitative Techniques for Managers
BBA-C-17

Time: Three hours

Maximum Marks: 75

(Write your roll no at the top immediately on receipt of this question paper.)
Attempt any 6 questions from Section A . Each question carries 5 marks. (6 X 5=30)
Attempt any 3 questions from Section B. Each question carries 15 marks. (15 X 3=45)

Section A

Write short notes on any SIX questions. (6X 5=30)

- a) Standard error vs probable error
- b) Central Limit Theorem
- c) Explained and Unexplained variance
- d) Confidence interval
- e) Expected Monetary Value (EMV)
- f) Expected Opportunity Loss(EML) *EOL*
- g) Errors in Hypothesis testing
- h) Coefficient of Determination
- i) Risk vs uncertainty
- j) Sampling frame

Section B

Attempt any THREE questions (15 X3=45)

Q1. From the data given below, find

- a) Two regression Equations
- b) Coefficient of correlation between marks in Economics and QTM

Marks in Economics	25	28	35	32	3	36	29	38	34	32
Marks in QTM	43	46	49	41	36	32	31	30	33	39

Q2. : Result of throwing die was recorded as follows:

Number falling upwards	1	2	3	4	5	6
Frequency	27	33	31	29	30	24

Calculate the Chi Square Test.

Q3. Set up an analysis of variance table for the following per acre production data for three varieties of wheat, each grown on 4 plots.

<i>Plot of land</i>	<i>Per acre production data</i>		
	<i>Variety of wheat</i>		
	<i>A</i>	<i>B</i>	<i>C</i>
1	6	5	5
2	7	5	4
3	3	3	3
4	8	7	4

Q4. The mean weight of 500 male students in a certain college is 151 kgs and the standard deviation is 15kgs. Assuming the weights are normally distributed, find how many students weight is more than 185 kgs.

Q5. A sample of 400 male students is found to have a mean height 67.47 inches. Population has mean height of 67.39 inches and standard deviation of 1.30 inches? Calculate the Z score from the above information.

Q6. "A Sample is a representative of Population" in the light of this statement discuss the various sampling techniques used by a researcher.