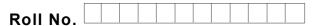


www.FirstRanker.com

www.FirstRanker.com



Total No. of Pages : 03

Total No. of Questions : 17

MBA (2018 Batch) (Sem.-1) QUANTITATIVE TECHNIQUES Subject Code : MBA-103-18 Paper ID : [75404]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

- 1. SECTION-A contains EIGHT questions carrying TWO marks each and students has to attempt ALL questions.
- 2. SECTIONS-B consists of FOUR Subsections : Units-I, II, III & IV. Each Subsection contains TWO questions each carrying EIGHT marks each and student has to attempt any ONE question from each Subsection.
- 3. SECTION-C is COMPULSORY carrying TWELVE marks.

SECTION-A

- 1. Define Statistics.
- 2. What are the properties of standard deviation?
- 3. What are characteristics of a good measure of central tendency?
- 4. Define rank correlation coefficient. How is it determined?
- 5. Distinguish between correlation and regression.
- 6. Define probability.
- 7. What is Normal Distribution?
- 8. What is the difference between PERT and CPM?



www.FirstRanker.com

SECTION-B

UNIT-I

9. Calculate median from the following frequency distribution.

Marks:	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50
Frequency:	7	15	24	31	42	30	26	15	10

10. Calculate Karl Pearson's Coefficient of skewness :

<i>X</i> :	12.5	17.5	22.5	27.5	32.5	37.5	42.5	47.5
<i>f</i> :	28	42	54	108	129	61	45	33

UNIT-II

11. Find out coefficient of correlation between X and Y

					÷.					
X:	17	18	19	19	20	20	21	21	22	23
<i>Y</i> :	12	16	14	11	15	19	22	16	15	20

12. What is a scatter Diagram? What are the merits and limitations of scatter diagram?

UNIT-III

13. The following data shows the number of seeds germinated out of 10 on a damp filter of 80 sets of seeds. Fit a binominal distribution to the data :

<i>X</i> :	0	1	2	3	4	5	6	7	8	9	10
f:	6	20	28	12	8	6	0	0	0	0	0

14. Three dogs A, B and C are in a dog show race. A is twice as likely to win as B and B is twice as likely to win as C. what are the respective probability of winning the race?

(S32)-1109



www.FirstRanker.com

UNIT-IV

- What is North West Corner Rule? Explain how to solve a transportation problem using 15. North West Corner rule.
- Describe Hungarian method in assignment problem. 16.

SECTION-C

A project consists of 6 activities, The activities and their time estimation are shown below : 17.

	Time Weeks								
Activity	Optimistic Time	Most Likely time	Pessimistic						
	(t_o)	(t _m)	time (t _p)						
1-2	9	12	21						
1-3	6	12	18						
2-4	1	1.5	5						
3-4	4	8.5	10						
2-5	10	14	24						
4-5	1	<u> </u>	3						
Draw the network	diagram.	¢.							

- a) Draw the network diagram.
- b) Determine Critical path and calculate event slack. ak www.First