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Code No: MB1316/R13

MBA I Semester Supplementary Examinations, Jan/Feb-2018

QUANTITATIVE ANALYSIS FOR BUSINESS DECISION

Tin	ne: 3	6 Hours	-									Max.	Marks: 60
					Ar All Q Qu	iswer Ar Question lestion N	ıy FIV s Carr lo. 8 is	E Quest y Equal Compu	ions Marks lsory				
1.	a) b)	What is Calcu X Y	s Correla late Karl 39 47	ation? V l Pearsc 65 53	Vrite the on's Coe 62 58	e signific efficient 90 86	cance of Correct of Research Correct of Resear	of correlation relation 75 68	ation from the t 25 60	followi 98 91	ng data 36 51	ı.	4M 8M
2.	a b	What is Normal Distribution? Write its Properties. Write down the steps involved in Decision Making? Explain the Decision making under conditions of Risk- Utility as a criterion.										6M 6M	
3.		Write c i. ii. iii. iv.	lown the Permuta Baye's ' Big M M Replace	e follow ations & Theoren Method ement M	ing z Comb n Iodels	inations							12M
4.		Solve the following linear programming problem by Simplex method. Max Z= $3x_1 + 2x_2 + 5x_3$ S.T. $x_1 + 2x_2 + x_3 \le 430$, $3x_1 + 2x_3 \le 460$ $x_1 + 4x_3 \le 420$, $x_1, x_2, x_3 \ge 0$									12M		
5.		F	Find an o	ptimun	1 solutio	on to the	follow	ring tran	sportation	n proble	em.		12M
			Destin	ation	D ₁	D_2	D ₃	D ₄	Availab	le			
			S	1	3	7	6	4	50				
			S	2	2	4	3	2	20				
			S	3	4	3	8	5	30				
			Demar	nd	30	30	20	20					

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6. A Company has to assign four workers A,B,C,D to four jobs W,X,Y and Z 12M respectively. The cost matrix is given below. Find the minimum cost of assigning the jobs.

Workers/Jobs	W	Х	Y	Z
A	1000	1200	400	900
В	600	500	300	800
С	200	300	400	500
D	600	700	300	1000

7. Solve the following Game problem through Dominance.

	U					
Strategies	Ι	П	III			
Ι	-5	10	20			
П	5	-10	-10			
Ш	5	-20	-20			

8.

A project consists of 8 activities with the following information.

Activity Immediat T_o T_m Tp e Preceeder А 6 1 7 -1 1 4 7 В -2 С 2 8 _ D 1 1 1 A Е В 2 5 14 F С 2 5 8 G 3 15 D,E 6 Η F,G 1 2 3

i) Draw the PERT network and find out the expected project completion time.

ii) 95% confidence of completion *****

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12M

12M