Code No: MB1616/R16

MBA I Semester Regular/Supplementary Examinations, Jan/Feb-2018 QUANTITATIVE ANALYSIS FOR BUSINESS DECISION

Tin	ne: 3	6 Hours	Quin					ORDU	SH (ESS)	DLCI		Max. N	Aarks: 60
					All Ç	iswer Ar Question Vestion N	s Carry	v Equal	Marks				
1.	a) b)	What is Correlation? Write the significance of correlationCalculate Karl Pearson's Coefficient of Correlation from the following data.X39656290827525983678										4M 8M	
	0)	Y		53	58	86	62	68	60	91	51	84	
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.		i. ii. iii.	lown the fe Permutati Baye's Th Big M Me Replacem	ons & neorer ethod	c Combi n	inations							12M
4.		Max Z= S.T. x ₁ +2x 3x ₁ +2	$_{2} + x_{3} \le 4$ x $_{3} \le 460$ $_{3} \le 420$,	₂ +5x	· ·	grammir	ng prob	lem by	Simplex r	nethod			12M
5.			Find an o Source/ Destinat	•	um solu D ₁	$\text{tion to the the the the the the the the the the$	he follo	owing tr D ₄	ansportati Availab	^	blem.		12M
			S ₁		3	7	6	4	50	_			
			S ₂		2	4	3	2	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 121 respectively. The cost matrix is given below. Find the minimum cost of assigning the jobs.

Workers/Jobs	W	Х	Y	Z
А	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.

Strategies	Ι	П	III
I	-5	10	20
Π	5	-10	-10
III	5	-20	-20

8. A project consists of 8 activities with the following information.

Activity	Immediate Preceeder	T _o	T _m	T _p	
А	-	1	1	7	
В	-	1	4	7	
С	-	2	2	8	
D	А	1	1	1	
Е	В	2	5	14	
F	C	2	5	8	
G	D,E	3	6	15	
Н	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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