Q.P. Cod	e: 20MB9	9013						R2	20
Reg. No:				190					
SID	DHARTH	INSTITUTE		NGINI JTON			FECHNOLOG	Y:: PUTTUR	
	MBA I			uppler	nenta	ry Exa	minations May	-2022	
Time: 3 hou	rs		TLICI				Max. Marl	ks: 60	
		(Ans	wer all]	Five U		x 10 =	50 Marks)		
1 What	are the ma	ajor applicatio	ns of O	Test State State State	NIT-I			L1	10M
2 Maxi	mize Z = 1	$100x_1 + 125x_2$			OR			L4	10M
	traints 4x ₁ - 2x ₂ <=16	$+6x_2 <= 24$							
	0, $x_2 \ge 0$ the above	e liner progran	nming p	roblen	n by us	sing gr	aphical method.		
					NIT-I	-			
3 Write	e the procee	dure of solvin	g assigr	iment j	oroble: OR	n by H	Iungarian metho	d. L1	10M
4 Solve	the follow	ving assignme	-	lem?	2			L4	10M
		Operation /task	I I	II	III	IV	V		
		Α	20	15	18	20	25		
		В	18	20	12	14	15		
		C a	21	23	25	27	25		
		D	17	18	21	23	20		
		E	18	18	16	19	20		
	G 1			Contraction of the	NIT-II		2.4		4034
5 Defin	e Game th	eory. Explain	pure st	rategie	s and i OR	nixed	strategies.	L1	10M
6 For th	ne game gi	ven below det	ermine	optima B	al strat	egies	for A	L3	10M
				32	1 7				
			A	1	11	0			
7 117	about			UI	VIT-IV	V		1.1	1084
i) Ste ii) Co	e short note ps in PER ost slope oject crash	Т						L1	10 M

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1 x 10 = 10 Marks

OR

8 Draw the network and identify the critical path for the following problem:

L5 10M

Ó	Activity	Duration
	1-2	7
14 2	1-3	7
	2-3	8
Mo	2-4 3-6 4-5 5-6	6
	3-6	9
	4-5	3
	5-6	5

1. B

UNIT-V

- 9 a Why should manufacturers go for replacement?L15Mb What is the importance of time value of money in replacement?L15MOR
- 10 There are nine jobs, each of which must go through two machines P and Q in the L4 10M order PQ, the processing times (in hours) are given below:

Machine	Job(s)									
	A	В	С	D	E	F	G	Н	I	
P	2	5	4	9	6	8	7	5	4	
Q	6	8	7	4	3	9	3	8	11	

Find the sequence that minimizes the total elapsed time T. Also calculate the total idle time for the machines in this period.

SECTION – B (Compulsory Question)

11

Apply project crashing for the below project and calculate the cost of the project

Activity	G	Time	Cost		
Activity	Normal	Crash	Normal	Crash	
1-2	8	4	3000	6000	
1-3	5	3	4000	8000	
2-4	9	6	4000	5500	
3-5	7	5	2000	3200	
2-5	5	1	8000	12000	
4-6	3	2	10000	11200	
5-6	6	2	4000	6800	
6-7	10	7	6000	8700	
5-7	9	5	4200	9000	

*** END ***

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