3	,				<b>&amp;</b>	<b>&amp;</b>		R13	g
Ë	Code No: 1	17FZ AHARLAL NEI 3. Tech ÏV Year I	Semeste OPE	r Exam RATIO	OGICAL inations, NS RESE ME, MCI	Novemb ARCH	oer/December	ERABAD - 2016	F' É
	Time: 3 Ho	x. Marks: 75							
	Part Part	A is compulsor B consists of 5 ation carries 10 ma	y which Units. A	carries inswer a	25 marks	ull ques	tion from eacl		\$200 S
,				PA	RT- A				
E.	b) <sup>i</sup> Give c) Wha d) Expl	at is operations reservations of the various definition at is meant by optimation the steps in trust are the assumption	ns of öpe mal solut ansportat	rätions r ion? ion algor	rithm.	;;	P6	(25 Marks) [2] [3] [2] [3]	
Ű.	e) Wha f) Wha g) Expl h) Expl i) Wha j) Desc	[2] [3] [2] [3] [2] [3]	FÉ						
**************************************		re the following Limize Z= 152	PP K <sub>1</sub> + 6X <sub>2</sub> -		ART-B	.;	PS		
. <u></u>		ect to constraints	2	$X_1 + X_2 + X_1 + X_2 + X_1 + X_4 + X_4 + X_5$	$+5X_3 + 6$ $-3X_3 + 25X_3 + 25X_4 \le 70$ $\le 70$ $\le 3$ and $X_4 \ge 0$	$\zeta_4 \leq 20$ ,	, Fil	[10]	Pt
<u> 6</u>	3. Use	simplex method t Minimize subject to cons	z straints: 3		x <sub>5</sub> ≤7, ≤12 ;::::::::::::::::::::::::::::::::::::	 	PE.	[] [10]	
<u></u>	meth		iced Ass	ignment	problem			oy the Hungarian [10] [10] mal assignment.	
-			W1	W2	W3	W4	capacity	[10]	
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****	E:E	F2 ::::::::::::::::::::::::::::::::::::	115:::::	-:180 -:180	40:	30	7:	PS	* * * * * * * * * * * * * * * * * * *
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6. Find	d the sec three ma	quence tachines	hat mir	nimizes orderA	the tota	al time i	required	d in per	formin	g the following j . Also find the t	obs
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****	- !	<del>" [[]]</del>		****	, O	R	**				**** *** *
7. The Rs.	e mainte 7000 is	enance of	cost and		O.			machin		se purchase pric	• • • • • • • • • • • • • • • • • • • •
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, , , , , , , , , , , , , , , , , , ,	Mainte cost in	·Rs	900	1200	1600	2100	2800	3700	4700		
	Resale in Rs.	value	4000	2000	1200	600	500	400	400	400	* '*****
Whe	en should	d the m	achine 1	be repla	.ced?					[10]	
8 Obta	in the o	optimal game w	strateg hose pa	ies for yoff ma	both pe atrix is g	rsons given b	 and the elow:	value.	of the	game for zero-s	um 🖺
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11.a) State	the Bell	lman's i	Princin	le of Or	<b>OF</b> otimalit						
b) What							ng?	****		[: [[5+5	
					ooO	00				•	
F'5	X • • X • • • X • • • X	* ***				****		ATAR A A ARAK A	****	F6	FS