FIR	FirstR Pagesranke	lanker.com	E-051/EPL-051		
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Paper I	D : 140851 187851	Roll No.			
B. Tech.					
(SEM. I) THEORY EXAMINATION, 2015-16					
<b>OPERATION RESEARCH</b>					
[Time: 3 hours]		[Total	Marks : 100]		
Note : A	ttempt all qu	estions.  SECTION-A			
1. Att	empt any fou	ur of the following:	[5x4=20]		
(a)	What is ma	ain advantage of an OR 1	model?		
(b)		Describe the difference in standard form L.P.P. and canonical form L.P.P.			
(c)	Solve L.P.	P. by graphical method:			
	Max. Z = 3	$8000X_1 + 7000X_2$			
	Subject to	constraints, $3X_1 + X_2 \le$	66		

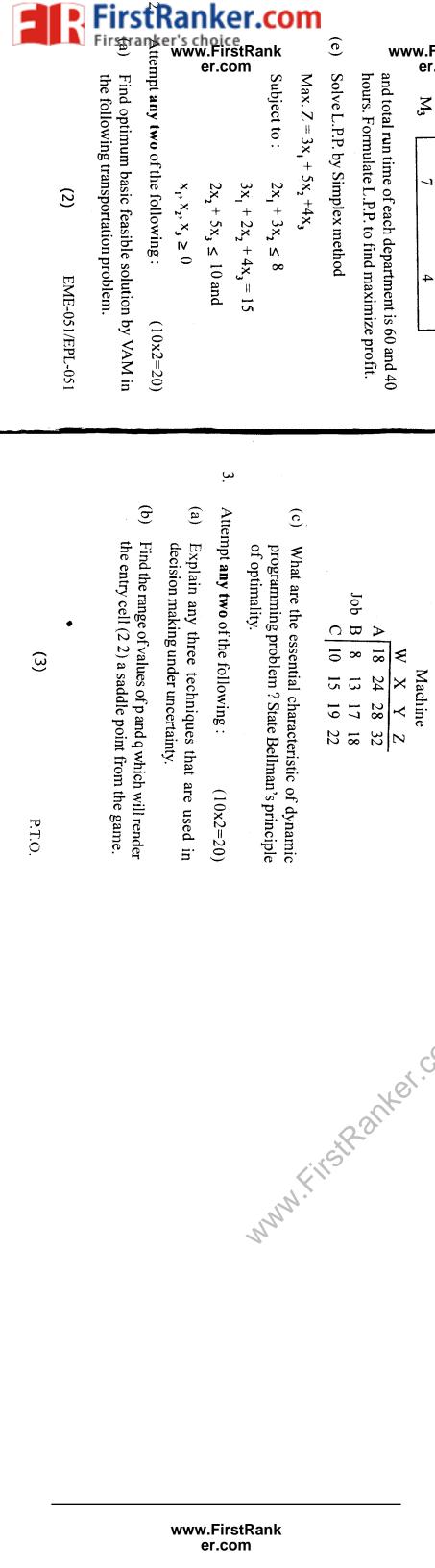
 $X_1 + X_2 \le 45$ 

P.T.O.

 $X_i \le 20$ 

(1)

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stRanke ranker's choice www.First er.con	the cost of placing an order is Rs. 5. The inventory carrying cost is 20% of the cost of inventory per annum and the cost of storage is Re. 1 per unit per month. Find the optimal ordinary quantity when stockouts are permitted. If the stock out are not permitted, what would be the loss to the company?
str	
Fin	different types of simulation languages.
R	(4) EME-051/EPL-051
F	

EME-051/EPL-051

(b) The demand for an item is deterministic and

constant over the time and it is equal to 600 units per year. The per unit cost of item is Rs. 50 while

one, step by step, the development formula.

path.	free and independent floats and identity the critical

(c) Draw a network diagram and determine the total

(iii) Jockeying

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Activity: 0-1 1-2 1-3 2-4 2-5 3-4 3-6 4-7 5-7 6-7

Duration: 2 8 10 6 3 3 7 5 2 8

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