Registration No:											
Total Number of Pages: 03 5th Semester Back Examination 2017-18 Optimization in Engineering BRANCHE: AEIE, CHEM, CSE, ECE, EEE, EIE, ELECTRICAL, ENV, ETC, FASHION, FAT, IT, ITE,									ITE, MAI	•	
210		ANUTECH, N 210 Answer Que Th	210	n N O 1 which	Time: 3 Max Ma Q.COD is cor	B Hours arks: 70 E: B159 npulsor	y and	210 any five	from the	0 210	
Q1	a)	Answer the following questions : Express the LPP in standard form								(2 x 10)	
210	,	Maximize Z= Subject to				10		210	21	0 210	
	b)	Define a degenerate basic feasible solution.									
210	c)	Obtain the de Maximize Z= Subject to	$= -3x_1 + 5x_2$			10		210	21	0 210	
			$x_1 - 3x_2 + 2x_1 - x_2 + 5x_1 - x_2 + x_1 - x_2 + x_2 + x_1 - x_2 + x_2 + x_1 - x_2 + x_2 + x_2 + x_2 + x_2 - x_2 + x_2 +$	3							
210			$x_1, x_2, x_3 \ge 0$		2	10		210	21	0 210	
	d)	What is an integer programming problem?									
	e)	Why transportation Problem is also a linear programming problem?									
	f)	What do you mean by degeneracy in a transportation problem?									
210	g)	What are the	basic chara	acteristic		ueueing	system	210 ?	21	0 210	
	h)	What is Bordered Hessian matrix?									
210	i) j)	What is the a method? Define local	_						earch	0 210	



