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	Code No: 124CB	R15
	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERAB	AD
	B.Tech II Year II Semester Examinations, May - 2017	2 1,27
	DESIGN AND ANALYSIS OF ALGORITHMS	
farmers for the farmers	(Computer Science and Engineering)	
	Time: 3 Hours Max. M	arks: 75
	Note: This question paper contains two parts A and B.	
	Part A is compulsory which carries 25 marks. Answer all questions in Part B consists of 5 Units. Answer any one full question from each unit. Each	n Part A.
	carries 10 marks and may have a, b, c as sub questions.	n question
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	PART-A	p
	A = A + A + A + A + A + A + A + A + A +	25 Marks)
	1.a) Define order of growth. [2]	3 114 (8)
	b) If $f(n) = 5n^2 + 6n + 4$ then prove that $f(n)$ is $O(n^2)$. [3]	
	c) Define a spanning tree and minimum spanning tree. [2]	•
	d) Define articulation point.	*
	e) Define greedy method.	•
	f) State the principle of optimality [3]	Turner June .
	g) List the application of Backtracking [2]	
A. A.	h) Define E-node.	
	i) Define class P. [2] j) Explain briefly about optimization problem. [3]	\sim
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	PART-B	1
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