1M3	N16163	(Pages :2)	Reg. No:
			Name:
	FAROOK COLLE	EGE (AUTONOMOUS), KOZHIKODE
	Third Semester M.S.	Sc Degree Examination	on, November 2016
		02 - Principles of Com	
Max. Time: 3 hours		015 Admission onward	Max. Weightage: 36
			Pan relemment incomes incomes
		Part A	
	$(6 \times 2 = 12)$	Answer all questions	
1.	Explain left factoring.	and disting	
2.	Explain Left recursion.		Distant a minimal state DFA wh
3.	What is the value of k in LR(K)parser?	
4.	Explain DAG.		Scripping (1) Lighting table I
5.	What is a basic block?		
6.	Define activation tree.		and the first part of
7.			
	Why shift reduce parsers follow	vs reverse of right mos	t derivation?
8.	What is coercion?		
9.	What is the meaning of analytic	cal phase in compiler?	
10.	Interpretor is slow. Why?		Explain the different types of me
11.	What is the meaning of compile	er to compiler?	
12.	Explain regular grammar.		$(12 \times 1 = 12)$

Part B

Answer any six questions

- 13. How many states are needed to denote the expression (0+1)(0+1).....n times.
- 14. Design a minimal state DFA in which the set of all strings over {0,1} where the 10th symbol from the right end is 1.
- 15. Explain SR and RR conflicts.

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16.	Explain the role of lexical analyzer,			
17.	Explain Input Buffering.			
18.	Explain the different types of Intermediate code generation			
19.	Explain Flow graph.	iT zsi		
20.	Explain different parameter passing techniques	ain different parameter passing techniques		
21.	Explain function and operator overloading $(6 \times 2 = 1)$	2)		
	PART C			
	Answer any three questions			
22.	Design a minimal state DFA which accepts even number of zeroes and odd number of ones			
23.	Design the LL(1) parsing table for the below grammar			
	S→A (Model a land a classify			
	A→0A/1B			
	B→1A/0			
24.	Discuss the storage allocation strategies.			
25	Discuss the code generation issues.			
26.	Explain the different types of machine dependent and machine independent optimizations			
27.	Find the FOLLOW() sets for the below mentioned grammar			
	S→aBDh			
	B→cC			
	C→bC/€			
	D→EF (1-0)(1-0) notestages out around at below our terms were	W.		
	E→g/€ processor (1,0) town as interesting to the state of the state o			
	F→f/€ (3 x 4 = 12	2)		