Bachelor of Science (B.Sc. I.T.) Semester–IV (C.B.S.) Examination COMPILER CONSTRUCTION

Paper—V

Time: Three Hours]			mum Marks: 50
Note :— (1) All questions are compulsory and carry equal marks.		-(1) All questions are compulsory and carry equal marks.	
		(2) Draw neat and labelled diagram wherever necessary.	
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1.	(a) Write short notes on:		
		(i) Book keeping	
		(ii) Boot strapping.	5
	(b)	What is compiler? Explain structure of a compiler.	5
	OR		
	(c)	Explain lexical analysis with an example.	5
	(d)	What do you mean by optimization? Explain local optimization with an exam	nple. 5
	EIT	THER	
2.	(a)	Explain the Hierarchial structure of programming language.	5
	(b)	What is operator? Explain arithmetic properties of operators.	5
	OR		
	(c)	What is statement? What are the types of statement?	5
	(d)	Explain parameter transmission.	5
	EIT	HER	
3.	(a)	Explain role of Lexical Analyzer.	5
	(b)	Define deterministic finite automata. Give one example.	5
	OR		
	(c)	Write short note on context free grammar.	5
	(d)	Explain how lexical analyzer is implemented.	5
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4.	(a)	Explain the problems encountered in code generation.	5
	(b)	Write short flow graph and induction variable.	5
	OR		
	(c)	Explain top down parsing with one example.	5
	(d)	What is parser? Explain predictive parsing.	5
5.	Attempt All:		
	(1)	What is error handling ?	21/2
	(2)	Explain storage management.	21/2
	(3)	What do you mean by Ambiguous grammar?	21/2
	(4)	Explain machine model.	21/2