Exam.Code:0918 Sub. Code: 6795

2062

B.E. (Computer Science and Engineering) Sixth Semester CS-604: Complier Design

Time II	
Time allowed: 3 Hours	Max. Marks: 50
NOTE: Attempt <u>five</u> questions in all, including Question I and selecting two questions from each Section.	No. I which is compulsory
1. Attempt the following:-	(5x2)
(a) What is the difference between a phase and a pass?	
(b) What is a look ahead operator and have it is	
(b) What is a look ahead operator and how it helps in lo(c) How is token recognition done?	oop identification?
(d) What are storage allocation strategies?	
(e) What issues arise while designing a code generator?	
SECTION – A	
2. (a) Draw and Explain the phases of a compiler in detail.	
(b) Explain implementation of lexical analyzer.	[5]
3. (a) Explain the code generation and error handling phase	[5]
(b) What is a symbol table? Explain its significance structure.	of a compiler. [5]
structure.	alongwith its contents and data
4. (a) Explain the role of parser in detail.	[5]
(b) Explain shift - reduce parsing with the help of an exa	[5]
SECTION - R	[0]
5. (a) Explain synthesized and inherited attributes with the l	eln of avanual
(b) Explain the implementation of syntax directed translate	tion with the last of
6. (a) Explain activation trees and Activation records.	[6]
(b) Convert the following statement into quadruple, triple	and indirect triple -t-
(C . D)	
7. Write short notes on the following:	[6]
(a) Flow Graphs	
(b) Peephole Optimization	[3]
(c) Loop Unrolling and Loop Jamming	[3]
	[4]