Exam. Code	:	107204
Subject Code	:	1753

Bachelor of Computer Application (BCA) 4th Semester SYSTEM SOFTWARE Paper—IV

Time Allowed—3 Hours] [Maximum Mark	ks—75
Note: — Attempt any five questions. All questions carremarks.	y equa
1. (a) Explain the role of different components of Co	mpiler
(b) How recursive macro expansion takes position process? Explain by taking an expansion takes position process?	
2. (a) Differentiate between Interpreter and Assen	nbler.
(b) Discuss key functions of Linker.	5
3. (a) Differentiate between the design issues of On and Two pass assembler.	ne pass
(b) What are different tables used in second p two pass assembler? Explain by taking so example.	
4. How macros are useful ? Discuss the procedu	ire for
concatenation of macro parameters using pseudo	code.
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5.	(a)	What are Tokens? How tokens are useful	in lexica		
		analysis? Explain.	10		
	(b)	What is semantic error? Which phase of co	mpilation		
		catches the semantic errors and how they are	handled '		
		Explain.	5		
6.	Dis	cuss the following in detail:			
	(a)	Cross Compiler	7.5		
	(b)	Shift Reduce Parsing.	7.5		
7.	(a)	(a) What is left recursion? How it affects the parsing			
		process ? Explain.	10		
	(b)	What is meant by storage management optim	nization ?		
			5		
8.	Exp	Explain the following concepts:			
	(a)	Relocation	7.5		
	(b)	Bootstrapping	7.5		

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