	Reg	stration No ²¹⁰	210	
T	otal Nu	mber of Page : 01 4 th Semester Back Examination 2017-18	B.Tech. PCCS4203	
	210	210 SYSTEM PROGRAMMING BRANCH : CSE, IT, ITE Time : 3 Hours Max Marks : 70 Q.CODE : C1138	210	
		Answer Question No.1 which is compulsory and any five from t	he rest.	
		The figures in the right hand margin indicate marks. Answer all parts of a question at a place.		
	210	210 210 210 210	210	
Q	1	Answer the following questions :	(2 x 10)	
	a)	What are the features of System Programming?		
	b)	Represent the number 357 using packed decimal format.		
	c)	Differentiate between pseudo op and machine op.		
	d) 210	What is the function of two pass assembler?	210	
	e)	Differentiate between controlled storage and based storage.	210	
	f)	What are terminals and non terminals of a grammer?		
	g)	List out advantages and disadvantages of absolute loader.		
	h)	Define look ahead operator.		
	i)	Explain the role of macro processor.		
	j 210	What is the difference between parse tree and syntax tree? 210	210	
Q	2 a) b)	Explain lexical analysis of a language processor. Explain left recursion and left factoring with suitable example.	(5) (5)	
Q	3a) b)	Write algorithm for operator precedence parsing and explain with exampl Explain Design of Macro Preprocessor.	e. (5) (5)	
Q	(4 a) b)	Explain assembly scheme with suitable example 210 Explain dynamic linking. Draw the flaw chart for dynamic linking.	210 (5) (5)	
Q	25 a) b)	Explain linking and loading in MS DOS Define forward references. How it can be solved using back-patching? Ex with example.	(5) (plain (5)	
Q	96 a) b)○	Explain design of a linker by addressing issues of relocation and linking Explain various phases of compiler in detail. 210 210	(5) 210 (5)	
Q	27	Describe different code optimization techniques.	(10)	
Q	8 a) b) c)	Write short answer on any TWO : Recursive descent parsing algorithm MS-DOS Linker Dynamic debugging	(5 x 2)	
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210