BACHELOR OF SCIENCE (COMPUTER SCIENCE) (CBCS - 2016 COURSE) T.Y.B.Sc.(Computer Science) Sem-VI :SUMMER- 2022 SUBJECT : COMPILER CONSTRUCTION

: Thursday e : 7/7/2022		C 14040 2020	Time: 11:00 AM-02:00 Max. Marks: 60	
ī.B.:				
	1)	All questions are COMPULSORY .		
	2)	Figures to the right indicate FULL marks.		
	3)	Draw diagrams WHEREVER necessary.		
Q.1		Answer ANY TWO of the following:	(12)	
	a)	What is meant by Predictive parser? Explain with example.		
	b)	Elaborate the role of Macro Pre-processor.		
	c)	Differentiate between Compiler and Assembler.		
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Q.2		Answer ANY TWO of the following:	(12)	
	a)	Describe various assembly language statements in brief.		
	b)	Write a note on LEX. Explain yylex(), yywrap() functions.		
	c)	Compare and contrast - Static and Dynamic memory allocation method	ods.	
Q.3		Answer ANY TWO of the following:	(12)	
	a)	Show that the following grammar is LL (1):-		
	aj	$S \rightarrow AaBb BbAa$		
		•		
		$A \rightarrow \in, B \rightarrow \in$		
	b)	What is activation record? Also state its contents.		
	c)	Differentiate between Application program and System program.		
Q.4		Answer ANY THREE of the following:	(12)	
	a)	What is code optimization? Explain.	Tr	
	b)	Differentiate between tokens, Patterns and Lexeme.		
	c)	Discuss various operations performed on languages.		
	d)	Elaborate the concept of backtracking with example.		
Q.5		Answer ANY FOUR of the following:	(12)	
	a)	Differentiate between LL and LR.		
	b)	Write a short note on finite automata construction with example.		
	c)	Write in brief about CFG.		
	d)	Explain the role of syntax analyzer with the help of diagram.		
	e)	What is Overlay? Explain.		
	f)	What is meant by Absolute loader?		