## NRJ/KW/17/3285

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

## Paper—V

Time: Three Hours]			[Maximum Marks : 50
N.E	<b>3.</b> :—	<ol> <li>All the questions are compulsory and carry equal marks.</li> <li>Draw neat and labelled diagram wherever necessary.</li> </ol>	
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1.	(a)	Explain the need of translator.	5
		Write a short note on structure of compiler.	5
	OR	Evalois the above and outinization	Ę
		Explain the phase code optimization.	5
		What is the role of error handling in compilation process?	5
	EITI		
2.		Explain the hierarchical structure of programming language.	5
	` /	What is data element ?	5
	OR	Evaloin the types of storage	5
		Explain the types of storage.	5
		Explain data structure supported by higher level language.	5
	EITHER		
3.		Explain the role of lexical analyzer.	5
	(b) OR	What is context free grammar? Explain in detail.	5
		What is regular expression ?	5
		Explain ambiguous grammar with example.	5
	EITHER		
4.	(a)	What do you mean by handle? Explain handle pruning.	5
	(b)	Explain operator precedence parsing technique.	5
	OR		
	(c)	Explain predictive parsing algorithm.	5
	(d)	How basic block can be represented by DAG?	5
5.	Attempt all:		
	(a)	Explain the role of table management.	2½
	, ,	Explain parameter passing in detail.	2½
		What do you mean by left most derivation? Explain with example.	2½
	(d)	What is object program ?	21/2