NKT/KS/17/5318

Bachelor of Science (B.Sc.I.T.) Semester—IV (C.B.S.) Examination COMPILER CONSTRUCTION

Paper—V

Time: Three Hours] [Maximum Marks : 50 **Note:**—(1) All questions are compulsory and carry equal marks. (2) Draw neat and labelled diagram wherever necessary. **EITHER** 1. (A) Differentiate between compilers and translators. 5 (B) Explain structure of compiler. 5 OR (C) Explain compiler writing tools. 5 5 (D) Explain error handling in compiler. **EITHER** 2. (A) What is programming languages? Explain structure of languages. 5 (B) Explain Storage Management in programming languages. 5 OR 5 (C) Explain different assignment statements used in programming languages. (D) Explain parameter transmission in programming languages. 5 **EITHER** 3. (A) What is Lexical Analyzer? Explain role of Lexical Analyzer. 5 (B) What is Ambiguous grammar? How can ambiguity be removed from grammar? 5 OR (C) Explain context free grammar in detail. 5 (D) Explain different approaches to design lexical analyzer. 5 NXO-20520 1 (Contd.)

EITHER

4.	(A) Explain shift reduce parsing.	5
	(B) Explain principle for source optimization.	5
	OR	
	(C) Explain top down parsing.	5
	(D) Explain representation of basic blocks in code generation.	5
5.	Attempt all:	
	(A) Explain book keeping.	21/2
	(B) Explain different operators used in programming languages.	21/2
	(C) Explain Parse tree.	21/2
	(D) Explain symbol table in parsing.	21/2