## http://www.kuonline.in

Roll No. ..... Total Pages: 2 Exam Code 8776 6107 BT-7/M-11 COMPILER DESIGN Paper: IT-455 [Maximum Marks: 75 Time: Three Hours Note: Attempt only five questions. All questions carry equal marks. . 15 Describe the structure of Compiler in detail. (a) Explain the construction of Lexical analyzer and implement in transition for identifiers. (b) What do you mean by Parsing? Explain the type of parsets with example.  $\mathbf{E} \to \mathbf{E} + \mathbf{T} | \mathbf{T}$  $T \rightarrow T^*F|F$  $F \rightarrow (E)$ lid What is Predictive Parser? Construct the Predictive Parsing table according to the above example.

## http://www.kuonline.in

6.	Explain the following terms:	
	(i) Syntactic Phase Error.	
	(ii) Semantic Errors.	
	(iii) Detection and Recovery.	5×3=1
7.	What are the principal sources of Optimization a	and Loc
	optimization ?	1
8.	Explain the following terms:	
	(i) Object Program.	
	(ii) Simple Code Generator.	
	(iii) Peephole Optimization.	1

15

What is LR Parser ? Explain with example. How is it different

Explain the implementation of Syntax Directed Translators.

from LALR Parsing?