DEERWALK INSTITUTE OF TECHNOLOGY			
MID TERM EXAMINATION, SEM VI		**SUBJECT**	**CSC- 352 COMPILER DESIGN AND CONSTRUCTION**
PASS MARK	**12**	**FULL MARK**	**30**
TIME	**1.5 HRS**	**DATE**	**26 SEPTEMBER, 2016**

INSTRUCTIONS

Do not write anything on the question paper.
Please write your name, roll number and other details very clearly on the front page of the answer sheet.
If you are using multiple answer sheets, ensure that they are safely stapled together.
Any attempt to cheat in any manner will result in automatic expulsion.
If you need any kind of help please raise your hand.
Good luck and all the best.

Attempt All Questions[5×6=30]

1. What do you mean by compiler and Interpreter? Explain the phase of a compiler with block diagram.

2. Define token, pattern and lexeme with suitable example. How input buffering can be implemented for scanner,explain.

3. Convert the regular expression **"0 + (1 + 0)* 00"** first into NFA and then into DFA using Thomson's and Subset Construction methods.

4. Consider the grammar :

   S→ aSbs | bsas | ε

   a. Show that this grammar is ambiguous by constructing two different leftmost derivations for sentence abab.
   b. Construct the corresponding rightmost derivations for abab.
   c. Construct the corresponding parse trees for abab.

5. Explain the usage of FLEX for YACC for compiler design.