HASMUKH GOSWAMI COLLEGE OF ENGINEERING, VAHELAL
MID SEMESTER EXAMINATION, SEPTEMBER-2016

Subject Code: 2170701　　　　　　　　　　**Date: 27th Sept 2016**
Subject Name: Compiler Design　　　　　**Sem: 7TH**
Time: 10:00 TO 10:50　　　　　　　　　　**Total Marks: 20**

Instructions:
1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

QUE.1	**(A)**	Explain the phases of compiler.	3
	(B)	Draw Transition diagram for unsigned operator.	3

QUE.2	**(A)**	Construct a DFA without constructing NFA for following regular expression **(a | b)*abb#.**	3
	(B)	Construct predictive parsing table LL(1) for following grammars:	4

        S->AaAb | BbBa
        A->ε
        B->ε

OR

	(B)	Considering the following grammar, parse the input string **int id,id;** using shift reduce parser:	4

        S->TL;
        T->int | float
        L->L,id | id

QUE.3	**(A)**	Explain Error Recovery strategy.	3
	(B)	Construct the LR(1) parsing table for the following grammars:	4

        S->CC
        C->aC
        C-> d

OR

	(A)	What is Three Address Code? Explain triple, quadruple, indirect triples with example.	3
	(B)	Construct the SLR parsing table for the following grammars:	4

        S->SS
        S->a
        S-> ε

****************************** **ALL THE BEST** ******************************