

Jodhpur Institute of Engineering & Technology
I Mid Term Examination-2009
Subject:-Compiler Construction (7CS1)

Time Duration: 90 Min.

Max. Marks:-10

Note: All questions carry equal marks.

Q1. Explain phases of compiler for given expression:

$$x = y + z * 10$$

Q2. Explain Buffer Pair and Sentinels input buffering techniques.

Q3. Calculate FIRST and FOLLOW for each nonterminal in given grammar:

$$S \rightarrow (L) | a$$

$$L \rightarrow L , S | S$$

Also construct Predictive Parsing Table for given grammar.

OR

Q3. Explain Left Recursion and Left factoring with examples.

Q4. Explain Operator Precedence parsing, also write algorithm for Operator Precedence Parser.

OR

Q4. What is handle and handle pruning? Give the reduction steps of expression "id+id*id" with the help of Shift Reduce Parser for given grammar:

$$E \rightarrow E + E$$

$$E \rightarrow E * E$$

$$E \rightarrow (E)$$

$$E \rightarrow id$$