

Roll No.:

24488

**B. Tech. 7th Semester (CSE)
Examination – May, 2015**

COMPILER DESIGN

Paper : CSE-405-F

Time : Three Hours] [Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

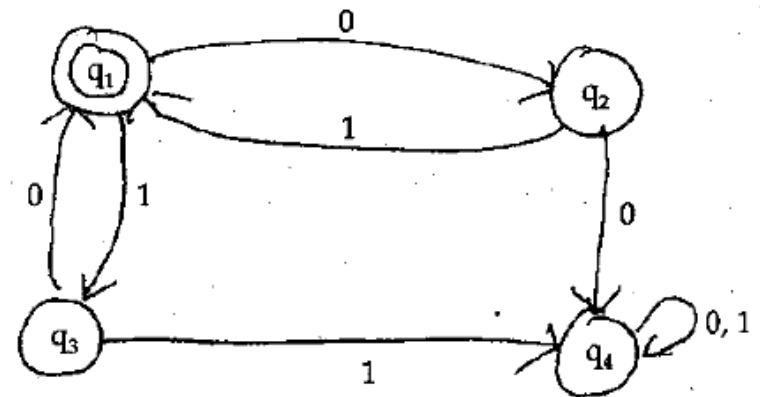
Note : Attempt *five* questions. Question No. 1 is *compulsory*. Select one question from each Section.

1. (a) What is the need of translator ?
- (b) What is the role of lexical analyzer ?
- (c) What is top down parsing ?
- (d) What is the role of parser.

- (e) What is LALK ?
- (f) Compare parse tree and syntax tree.
- (g) What is symbol table ?
- (h) What do you mean by DAG ?

SECTION – A

2. What is compiler ? Explain different phase of compiler. Also describe various compiler construction tool. <http://www.HaryanaPapers.com>
3. (a) What is regular expression ? Find the regular expression correspondence to



- (b) How to minimize number of state of DFA ? Explain with example.

SECTION - B

4. What do you mean by grammar ? Explain Context Free Grammar ? Write a CFG for the regular expression $r = 0^* 1(0 + 1)^*$.
5. What is parsing ? Explain shift reduce parsing and operator precedence parsing technique. Check whether following grammar is operator precedence grammar.

$E \rightarrow E + T / T$ $E \rightarrow T * F / F$ $F \rightarrow (E) / id$

SECTION - C

6. Write quadruples, triples and indirect triples for the expression.
- $-(a + b) * (c + d) - (a + b + c)$
7. (a) Define SLR ? Write a algorithm for construction of and SLR parsing table.
- (b) What is Canonical LR parsing ? Explain with example.

SECTION - D

8. What is error ? Explain the various types of error generated during various phase of compiler. How does we remove from these error ?
9. (a) What is code optimization ? Explain.
- (b) Explain how CPU Register are allocated while creating machine code ?

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