

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- VIIth SEMESTER-EXAMINATION – MAY/JUNE- 2012

Subject code: 170701

Date: 24/05/2012

Subject Name: Compiler Design

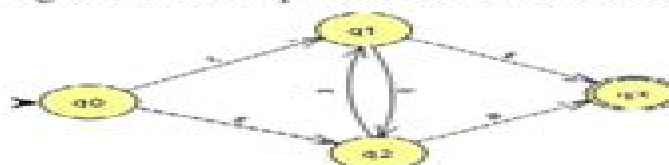
Time: 02:30 pm – 05:00 pm

Total Marks: 70

Instructions:

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

- Q.1**
- (a) Explain the analysis synthesis model of compilation. List the factors that affect the design of compiler. Also List major functions done by compiler. **06**
- (b) Find the Regular Expression corresponding to given statement, subset of $\{0,1\}^*$ **04**
1. The Language of all strings containing at least one 0 and at least one 1.
 2. The Language of all strings containing 0's and 1's both are even.
 3. The Language of all strings containing at most one pair of consecutive 1's.
 4. The Language of all strings that do not end with 01.
- (c) Explain non-recursive predictive parsers. Draw the block diagram of it. **04**
- Q.2**
- (a) Convert the following NFA- Λ into equivalent NFA. Here ϵ is a Λ -transition. **07**



OR

- (a) Construct a DFA for a given regular expression $(010+00)^*(10)^*$ **07**
- (b) How do the parser and scanner communicate? Explain with the block diagram communication between them. Also explain: What is input buffering? **07**
- OR
- (b) Write syntax directed Definition for translating following grammar for postfix notation. Also draw annotated parse tree for $9-5+2$. **07**
- $\text{expr} \rightarrow \text{expr} + \text{term}$
 $\text{expr} \rightarrow \text{expr} - \text{term}$
 $\text{term} \rightarrow 0 \mid 1 \mid \dots \mid 9$

- Q.3**
- (a) Construct predictive parsing table for following. **07**
- $S \rightarrow A$
 $A \rightarrow aB \mid Ad$
 $B \rightarrow bBC \mid f$
 $C \rightarrow g$

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