

Roll No. ....

Total Pages : 2

**9264**

**BT-7/D07**

**COMPILER DESIGN**

**Paper-IT-455**

Time : Three Hours]

[Maximum Marks : 75

**Note :** Attempt *five* questions in all, selecting at least *one* question from each unit. All questions carry equal marks.

**UNIT-I**

1. State the functions of a compiler and also discuss the structure of a compiler.
2. State the necessities and functioning of a translator in the functioning of a computer.

**UNIT-II**

3. Describe the role of a lexical analyzer ? How is finite automations useful for lexical analysis ?
4. Define Parsing with suitable examples. Also explain the shift reduce parsing and operation-precedence parsing.

**UNIT-III**

5. Consider the following grammar

$S \rightarrow As \mid b$

$A \rightarrow SA \mid a$

Construct the SLR parsing table and also canonical parsing table of the above grammar.

9264/700/KD/2345

[P.T.O.]



6. Describe the various strategies for recovering from a syntax error.

#### UNIT-IV

7. How will you define optimization ? Discuss it and also explain the principal sources of optimization.
8. State the code generation from DAG's.

9264/700/KD/2345

2