

Roll No.

7E7035

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B.Tech. VII Semester (Main & Back) Examination, Dec. 2015
 Computer Science & Engineering
 7CS5A Compiler Construction

Time : 3 Hours

Maximum Marks : 80

Min. Passing Marks : 24

Instructions to Candidates:

Attempt any five questions, selecting one question from each unit. All questions carry equal marks. (Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.)

Unit - I

1. Explain the difference phases of compiler design with the help of suitable diagram? (16)

OR

1. Write a regular expression and construct a transmission diagram of the following:
 - i) Identifier and keywords in pascal
 - ii) Unsigned numbers in pascal.

(16)

Unit - II

2. Consider the following grammar G:-

$$E \rightarrow TE'$$

$$E' \rightarrow +TE' \mid \epsilon$$

$$T \rightarrow FT'$$

$$T' \rightarrow *FT' \mid \epsilon$$

$$F \rightarrow (E) \mid id$$

Where ϵ denotes the empty string of symbols

