

1st internal examination of MSC (CS/IT)
Semester: 3rd
Paper: Compiler Design

Full marks: 20

Time: 1hr

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| 1. Briefly explain the different stages of a compiler. | 6 |
| 2. What is shift-reduce parser? | 2 |
| 3. How can we eliminate left recursion from a grammar? | 2 |
| 4. Consider the following grammar- | 10 |

$E \longrightarrow TE'$
 $E' \longrightarrow +TE' \mid \epsilon$
 $T \longrightarrow FT'$
 $T' \longrightarrow *FT' \mid \epsilon$
 $F \longrightarrow (E) \mid id$

Find FIRST and FOLLOW for the above grammar. Draw a predictive parser table for the above grammar.