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R-11

Code: 1G451

Last Chance Special Supplementary Examinations

III B.Tech. I Semester Supplementary Examinations July 2021

Automata and Compiler Design

(Information Technology)

Max. Marks: 70

Time: 3 Hours

Answer any **five** questions
All Questions carry equal marks (**14 Marks** each)

- 1. a) Write an algorithm to convert NFA to DFA with proper Example? 10M
b) What are the differences between NFA and DFA? 4M

- 2. Explain different Phases of compiler with an example. 14M

- 3. Construct SLR Parsing table for the below grammar and check the input string W=id+id*id is accepted by the grammar are not
E->E+T/T
T->T*F/F
F->E/id 14M

- 4. a) Write syntax directed translation in details? 7M
b) Write different forms of Intermediate code? 7M

- 5. Write about type conversions and write about polymorphic function? 14M

- 6. Write about Symbol Table organisation in details? 14M

- 7. a) Write about Principle source of optimization and explain its types? 7M
b) Write about peep-hole Optimization? 7M

- 8. Write generic code generation algorithm in detail with proper example? 14M
