

Roll No.

Total No. of Questions : 08]

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M.Tech.

COMPILER DESIGN

SUBJECT CODE : CS - 506

Paper ID : [E0686]

[Note : Please fill subject code and paper ID on OMR]

Time : 03 Hours

Maximum Marks : 100

Instruction to Candidates:

- 1) Attempt any **Five** questions.
- 2) **All** questions carry equal marks.

Q1) What is a Compiler? Discuss the basic structure of a compiler?

Q2) What is a programming language? Discuss the hierarchical structure of a programming language?

Q3) Define a Regular Expression? How can it be converted into Finite Automata? Explain with the help of examples?

Q4) What is a Symbol Table? How is it implemented?

Q5) Explain

- (a) Syntax and Semantic errors.
- (b) Intermediate code generation.

Q6) What is code optimization? How is it achieved? Support your answer with the help of examples?

Q7) How is memory managed at the time of execution of a program? Discuss with reference to any language of your choice?

Q8) Discuss the process of code generation? Also elaborate on the problems faced in this process?

