Code No: 156CP

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech III Year II Semester Examinations, February/March - 2022
PRINCIPLES OF COMPILER CONSTRUCTION
(Information Technology)

Time: 3 hours   **Max. Marks: 75**

Answer any five questions
All questions carry equal marks
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1.a) Discuss briefly about Lexical Analyzer.
  b) Explain input buffering in lexical analysis.   [8+7]

2.a) Describe briefly about Top Down Parsing.
  b) Write a note on Left Factoring.   [8+7]

3.a) Describe about Dependency Graphs in detail.
  b) What is an ambiguous grammar? Give an example of the same.   [8+7]

4.   What is Code Generation? Explain briefly about issues in design of code generation.
                                                                          [15]

5.a) Distinguish between L-attributed and S-attributed definition.
  b) Explain Principle Sources of Optimization in detail.   [8+7]

6.a) Give an overview of storage allocation strategies.
  b) Give an overview of register allocation.   [8+7]

7.a) Explain briefly about reaching definitions.
  b) Give an overview of data structures used in symbol table representation. [7+8]

8.a) Write about Live Variable Analysis in detail.
  b) What is Redundancy? Explain about Causes of Redundancy.   [8+7]

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