	프로그램 이번 이번 경험 경험 경기를 하지 않는데 얼마 없다.			
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Total Pages: 3

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BT-6/M-24 COMPILER DESIGN Paper-PC-CS-302A

Time: Three Hours] [Maximum Marks: 75

(a) Static Allocaron,

Note: Attempt five questions in all, selecting one question from each unit.

UNIT-I

1. What are different phases of Compiler and also write the role of these phases in compiler? (15)

of Direction Acyclic (Irvib in Commissional edien with an

2. What do you mean by compiler construction tools and explain Parser generator, lexical Analyzer and Scanner generator in detail? (15)

UNIT-II

- 3. (a) What do you mean by ambiguity in Context free grammar and write the steps to remove the ambiguity in CFG by taking an appropriate example?
 - (b) Explain TOP down parsing by taking an appropriate example. (15)

4. What do you mean by LALR parser? Design a LALR (1) Parsing table from the following Grammar?

$$S \rightarrow AA$$

$$A \rightarrow aA$$

$$A \rightarrow b.$$
(15)

UNIT-III

- 5. Explain the following allocation in detail:
 - (a) Static Allocation,
 - (b) Heap Allocation, and approximation of the second secon
 - (c) Stack Allocation,

by taking an appropriate example. (15)

6. What is role of Directed Acyclic Graph (DAG) in Compiler Design? Also write an algorithm for construction of Directed Acyclic Graph in Compiler Design with an example:

$$T0 = a + b - Expression 1$$

$$T1 = T0 + c - Expression 2$$

$$d = T0 + T1 - Expression 3.$$
 (15)

. 3. [a] What do you WIT-IV moved in Conext free

7. What do you mean by Optimization and explain machine independent and machine dependent optimization in detail by taking an example? (15)

- 8. (a) Explain panic mode in detail with the help of an example.
 - (b) Explain the optimization of basic block, loop and peephole optimization with the help of an example.

(15)

