

Total No. of Printed Pages:02

SUBJECT CODE NO: -BB-2356
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. (CBCGS) (Pattern 2022) T.Y SEM V
Examination November / December 2025
Computer Science-XVIII A Compiler Design

[Time: 1:30 Hours]

[Max. Marks:40]

Please check whether you have got the right question paper.

N. B

- 1) All questions are compulsory.
- 2) All questions carry equal marks.
- 3) Draw neat diagrams and give labels wherever necessary.

Q1 1. Explain in detail the input buffering scheme in lexical analyzer. **10**

OR

2. Define triples, indirect triples and quadruples.
3. Explain the sequence of stack allocation process for a function call.

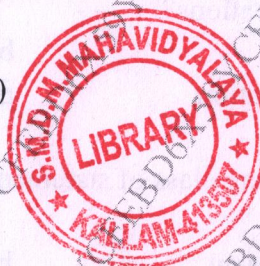
Q2 1. Explain the error recovery in predictive parsing? **10**

OR

2. What are the types of three address statements?
3. Explain the basic blocks and flow graphs?

Q3 Write a Short note on: (ANY TWO) **10**

1. Predictive LL (1) parser (working)
2. Handle pruning
3. Operator Precedence Parser
4. Recursive Descent Parser



Q4 Multiple Choice Questions: **10**

1. A compiler which allows only the modified section of the source code to be recompiled is called _____.
 - a) Subjective compiler
 - b) Dynamic compiler
 - c) Re-configurable compiler
 - d) Incremental compiler
2. A compiler is preferable to an interpreter because _____.
 - a) Debugging can be faster and easier
 - b) If one changes statement only that statement needs to change
 - c) It is much helpful in the initial stages of program development
 - d) It can generate standalone programs that often take less time for execution
3. A top-down parser generates _____.
 - a) Left-most derivation in reverse
 - b) Left-most derivation
 - c) Right-most derivation in reverse
 - d) Right-most derivation

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