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SIXTH SEMESTER B. Sc. DEGREE EXAMINATION, APRIL 2025

(Regular/Improvement/Supplementary)

COMPUTER SCIENCE

GBCS6E01T: SYSTEM SOFTWARE

Time: 2 Hours Maximum Marks: 60

SECTION A: Answer the following questions. Each carry *two* marks. (Ceiling 20 marks)

- 1. What is a compiler pass?
- 2. State the concept of macro instructions and their role in code expansion.
- 3. What is the relevance of symbol table management in compilers?
- 4. What are overlays? Explain its purpose.
- 5. Explain the term "relocatability" in the context of program design.
- 6. What is intermediate code generation?
- 7. Describe three common directives used in macro definitions.
- 8. Discuss the use of code optimization phase of a compiler.
- 9. Mention the use of YACC as a compiler construction tool.
- 10. What is a binder in the context of program linking?
- 11. What is the function of a macro call?
- 12. Compare LEX and YAAC.

SECTION B: Answer the following questions. Each carry *five* marks. (Ceiling 30 marks)

- 13. Discuss the concept of dynamic binding.
- 14. Differentiate between compilers and interpreters.
- 15. Describe the role of code generation in the compilation process.
- 16. Explain the purpose of loaders in a computing system. What are common loader schemes used in program execution?
- 17. Discuss the working of a two pass assembler.
- 18. Compare and contrast lexical analysis and syntax analysis.
- 19. Describe the significance of linkers in the software development process.

SECTION C: Answer any *one* question. The question carries *ten* marks.

- 20. Write a detailed note on LEX.
- 21. Describe the sequence of steps involved in the design of a macro processor.