8/3/23

D6BCS2004

Reg.No.............................

Name: ....

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2023

(Regular/Improvement/Supplementary)

COMPUTER SCIENCE

GBCS6E01T: SYSTEM SOFTWARE

Time: 2 Hours   Maximum Marks: 60

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

1. List out the advantages and disadvantages of Time sharing systems
2. How System Software differs from Application Software?
3. What is the purpose of Table of Incomplete Instruction?
4. Define Macro.
5. Write down the syntax of AIF statement in macro.
6. What is the purpose of Macro Name Table?
7. What is dynamic binder?
8. Define use table.
9. What is overlay?
10. Describe the classification of compile time errors.
11. What is YACC?
12. Write an example for LEX source program.

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

13. Write short note on fundamentals of Language Processing.
14. Explain the working of a two pass assembler.
15. Explain flow of control during expansion in macros.
16. Describe briefly the design of Macro Pre-processor.
17. Explain the Syntax Analysis phase in detail.
18. Describe in detail about Code optimization.
19. Differentiate between single pass and multi pass in compilers.

SECTION C: Answer any 1 question. Each carries *ten* marks.

20. What are Loaders? Explain in detail various loading Schemes with the help of diagrams.
21. Discuss in brief the widely used language processor development tool – the Lexical Analyser generator.

                                                 (1 x 10 = 10 Marks)