C 40492 (**Pages : 2**) **Name**.....

Reg. No.....

SIXTH SEMESTER U.G. DEGREE EXAMINATION
MARCH 2023

(CBCSS–UG)

BCA—Computer Science

BCA/BCS 6B 16 (A)—SYSTEM SOFTWARE

(2019 Admission onwards)

Time : Two Hours Maximum : 60 Marks

Section A (Short Answer Type Questions)

Answer **all** *questions.*

Each question carries a maximum of 2 *marks.*

1. Define constant folding.
2. Define Relocation.
3. Define Linker.
4. Define LEX.
5. Define Scanning.
6. What is the purpose of OPCODE TAB ?
7. Write the function of Loader.
8. Define Parsing.
9. Write the need of Lexical Analyzer.
10. Explain advantages of using macros.
11. Define Symbol Table.
12. Explain Dynamic Linking in detail.

(Ceiling 20 marks)

Section B (Short Essay Type Questions)

Answer **all** *questions.*

Each correct answer carries a maximum of 5 *marks.*

13. Explain in detail about the role of Lexical Analyser.
14. How the Assembler gives Program Relocation Information to the Loader ?
15. Explain global and local optimization in detail.

Turn over

16. Give a detailed explanation about Overlay.
17. Explain different types of parsing in detail.
18. Explain general concept of system software.
19. Explain about macros and macro processors.

(Ceiling 30 marks)

Section C (Essay Type Questions)

Answer any **one** *question.*

The question carries 10 *marks.*

20. Explain different data structures used in an assembler.
21. What is Compiler ? Explain the structure of compiler in detail.

(1 × 10 = 10 marks)