

**22U629**

(Pages: 2)

Name : .....

Reg. No : .....

**SIXTH SEMESTER B.Sc./B.C.A. DEGREE EXAMINATION, APRIL 2025**

(CBCSS-UG)

(Regular/Supplementary/Improvement)

**CC19U BCS6 B16 / CC19U BCA6 B16 - SYSTEM SOFTWARE**

(Computer Science / Computer Application - Elective Course)

(2019 Admission onwards)

Time: 2 Hours

Maximum: 60 Marks

Credit: 3

**Part A** (Short answer questions)

Answer *all* questions. Each question carries 2 marks.

1. Describe a Compiler.
2. Interpret opcode tables.
3. Arrange the advantages of using Macro facility.
4. Examine how does a macro processor differ from a macro assembler?
5. Examine about relocation.
6. Examine the meaning of dynamic loading.
7. Inspect a non-relocatable programs.
8. Explain the the role of Code Generation step in compiler design.
9. Describe the structre of a symbol table with proper fields.
10. Analyse Tokens in lexical analyser.
11. Examine Lexeme.
12. Examine the rule section in YACC.

**(Ceiling: 20 Marks)**

**Part B** (Short essay questions - Paragraph)

Answer *all* questions. Each question carries 5 marks.

13. Discuss about the different types of Softwares.
14. Compare and contrast between actual parameters and formal parameters in a macro.
15. Arrange a short note on recursive macro with suitable example.
16. Examine the concept of General loader schemes with a neat diagram.
17. Group and explain the main parts of an overlay structured program.

18. Explain the differences between Triples and Quadruples.
19. Report a short description about the Single Pass compiler.

**(Ceiling: 30 Marks)**

**Part C (Essay questions)**

Answer any *one* question. The question carries 10 marks.

20. Organize the concepts of default specification parameters, Mixed parameter list in Macro facility.
21. Describe and explain the different Phases of a Compiler with a neat block diagram.

**(1 × 10 = 10 Marks)**

\*\*\*\*\*