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Name:

Reg. No:

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2022

(CUCBCSS-UG)

CC17U BCS6 B16a – SYSTEM SOFTWARE

(Computer Science - Core Course)

(2017, 2018 Admissions – Supplementary/Improvement)

Time: Three Hours

Maximum: 80 Marks

PART A

Answer *all* questions. Each question carries 1 mark.

1. What converts an Assembly Language program into machine code?
2. What does the Symbol table contain?
3. Define a macro.
4. What are loaders?
5. What is the purpose of program counter?
6. What are parse trees?
7. What is an interpreter?
8. What is a Compiler?
9. What are binders?
10. Expand YACC.

(10 × 1 = 10 Marks)

PART B

Answer *all* questions. Each question carries 3 marks.

11. Write a short note on various types of System Softwares.
12. Write about Nested Macros.
13. Make a distinction between Loader and Linker.
14. What is meant by program relocation?
15. What are Overlays?

(5 × 3 = 15 Marks)

PART C

Answer any *five* questions. Each question carries 5 marks.

16. Write a short note on intermediate code generator.
17. What are dynamic binders?
18. Explain about forward reference problem.
19. Briefly explain the design of two pass assembler.

20. Write the functions of an Operating System.
21. Write a short note on Syntax tree.
22. Give the features of macros.
23. Give a short note note on the major classes of binders.

(5 × 5 = 25 Marks)

PART D

Answer any *three* questions. Each question carries 10 marks.

24. Give a detailed account on different Language Translators.
25. Draw the design of a macro processor and explain its functions.
26. Explain different code optimization techniques in detail.
27. Explain the various types of Loader schemes.
28. Explain the different phases of a compiler in detail.

(3 × 10 = 30 Marks)
