



K19U 0191

Reg. No. : .....

Name : .....

VI Semester B.C.A. Degree (CBCSS – Reg./Supple./Improv.)

Examination, April 2019

(2014 Admission Onwards)

Core Course

6B21BCA : SYSTEMS SOFTWARE

Time : 3 Hours

Max. Marks : 40

SECTION – A

Answer **all** questions. **Half** mark **each**.

1. a) \_\_\_\_\_ phase is concerned with construction of target language statements in language processing.
- b) The syntax of a literal is \_\_\_\_\_
- c) The problem of forward reference is handled using \_\_\_\_\_ in single pass translation.
- d) The number of addressing modes supported in 8088 microprocessor is \_\_\_\_\_
- e) Memory binding is an association between \_\_\_\_\_ and \_\_\_\_\_
- f) \_\_\_\_\_ language processor does not generate a target program.
- g) \_\_\_\_\_ object record contains binary image of the code and data generated by the language translator.
- h) The process of isolating lexical units of a sequence is called \_\_\_\_\_

SECTION – B

Answer **any 7** questions. **2** marks **each**.

2. What is system software ?
3. What are the components of programming language specification ?
4. What are the basic facilities of assembly language ?

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5. What are the different kinds of macro expansions ?
6. Specify the scope rules of a block-structured language.
7. What is linker ?
8. What are the different steps in the execution of a program ?
9. What are the different types of statements in a macro definition ?
10. What are the aspects of compilation ?
11. What are search and allocation data structures ?

SECTION – C

Answer **any 4** questions. **3** marks **each**.

12. Write a note on data structures used for language processing.
13. Discuss about different advanced macro facilities.
14. Write an algorithm for second pass of two-pass assembler.
15. Explain the features of programming languages.
16. Classify the programs based on their relocatability.
17. Explain ambiguity in grammars with an example.

SECTION – D

Answer **any 2** questions. **5** marks **each**.

18. Discuss about different language processing activities.
  19. Explain the design of a macro assembler.
  20. Discuss about optimizing transformations used in compilers.
  21. Explain LL(1) parser with an example.
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