



**K20U 0098**

Reg. No. : .....

Name : .....

**VI Semester B.Sc. Degree (CBCSS-Reg./Supple./Improv.)**

**Examination, April 2020**

**(2014 Admission Onwards)**

**CORE COURSE IN COMPUTER SCIENCE**

**6B13CSC : System Software**

Time : 3 Hours

Max. Marks : 40

**SECTION – A**

**One word answer.**

**(8×0.5=4)**

1. a) Which denotes the rules of meaning of a domain ?
- b) A single pass assembler uses \_\_\_\_\_ technique to handle forward references.
- c) Which performs memory allocation for entities in a program ?
- d) The address assigned to its first instruction by a linker is called
- e) Type-2 and type-3 grammars are also called as
- f) Which statement constructs memory words containing constants ?
- g) A reference to a symbol that is not defined in the program unit containing the reference \_\_\_\_\_
- h) Which loader performs relocation while loading a program for execution ?

**SECTION – B**

Write short notes on **any seven** of the following questions.

**(7×2=14)**

2. What is the use of program counter ?
3. What is the need of multi-pass organization in language processors ?
4. What are literals ?

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5. What is instruction address ?
6. What is relocation ?
7. What is address sensitive program ?
8. What are parse trees ?
9. What is recursive descent parser ?
10. What is binding ?
11. What is global optimization ?

SECTION – C

Write short notes on **any four** of the following questions :

**(4×3=12)**

12. What are the typical functionalities of system software ?
13. Compare compilers and interpreters.
14. What is LC processing ?
15. Differentiate EXTRN and ENTRY statements.
16. Define Finite State Automata.
17. What are the main benefits of multi-pass compilers ?

SECTION – D

Write short notes on **any two** of the following questions :

**(2×5=10)**

18. Discuss symbol table entry formats.
  19. Discuss the elements of assembly language programming.
  20. Explain classification of grammars with examples.
  21. Discuss function and procedure calls in compilation.
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