K20U 0098

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 ?

P.T.O.

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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