K19U 0093

Reg. No.: .....

Name: .....

VI Semester B.Sc. Degree (CBCSS – Reg./Supple./Improv.) Examination, April 2019
(2014 Admission Onwards)
CORE COURSE IN COMPUTER SCIENCE
6B13CSC : System Software

Time : 3 Hours Max. Marks : 40

SECTION – A

1. **One** word answer : **(8×0.5=4)**

   a) _____ is the key data structure of a language processor.

   b) Which table is used to store information about symbolic names used in the program ?

   c) Which module contains information useful for linking ?

   d) Relocation factor can't be negative (True/False).

   e) _____ is a collection of productions.

   f) Which causes clusters of entries to develop in the symbol table ?

   g) Which shows the linked origin, length and linked execution start address of the program ?

   h) _____ provides a concise means of specifying lexical units.

SECTION – B

Write short notes on **any seven** of the following questions : **(7×2=14)**

2. What are language processors ?

3. What is forward reference ?

4. What are declaration statements ?

P.T.O.

5. What is backpatching ?
6. What are self-relocating programs ?
7. What is meant by dynamic linking ?
8. What are non-terminal symbols ?
9. What is operator precedence parsing ?
10. What is the need of code optimization ?
11. What are live variables ?

SECTION – C

Write short notes on **any four** of the following questions : **(4×3=12)**

12. What are the characteristics of a program translation model ?
13. What are the benefits of assembly language ?
14. Explain the format of an IC unit with an example.
15. Discuss the effects of changing the origin of a program with an example.
16. Define grammar. Give an example.
17. What are the major issues in code generation for expressions ?

SECTION – D

Write short notes on **any two** of the following questions : **(2×5=10)**

18. Discuss the types of language processors.
19. Discuss the pass structure of assemblers.
20. Explain the scheme of linking.
21. Discuss the algorithm for determining evaluation order for operators of an expression.

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