



K17U 0434

Reg. No. :

Name :

**VI Semester B.C.A. Degree (CBCSS – Regular) Examination, May 2017
(2014 Admn.)
Core Course In B.C.A.
6B21BCA : SYSTEM SOFTWARE**

Time : 3 Hours

Max. Marks : 40

SECTION – A

1. **One word answer :** **(8×0.5=4)**
- a) The computer language generally translated to pseudo code is
 - b) YACC stands for
 - c) _____ frees all allocated but not used spaces.
 - d) The graph which shows basic blocks and successor relationships is called _____
 - e) The first program loaded into memory when we turn on or restart a system is
 - f) Storage mapping is done by _____
 - g) Replacement of an expensive operation by a cheaper one is known as
 - h) Type checking normally done during _____

SECTION – B

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

- 2. Define a language processor.
- 3. Describe the properties of intermediate representation of a program.
- 4. Explain the operations of DFA.
- 5. Define assembler directives.



6. List different data structures used by an assembler.
7. Write uses of directive set in macro processors.
8. Give example for quadruple representation.
9. What is program relocation ?
10. Give any two drawbacks of stack based memory allocation.
11. Name the data structures created and used by two pass linker.

SECTION – C

Answer **any four** of the following questions : (4×3=12)

12. Briefly discuss two approaches used for collision handling in hashing.
13. Differentiate between static binding and dynamic binding.
14. Explain the working of recursive descent parser.
15. Explain basic functions of an assembler.
16. Briefly explain different data structures used by a macro processor.
17. Explain different code optimization techniques.

SECTION – D

Write an essay on **any two** of the following : (2×5=10)

18. Explain different memory management techniques.
 19. How is forward referencing handled by a single pass assembler ? Explain.
 20. Compare and contrast macros and subroutine.
 21. Explain the working of overlays.
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