

B.C.A. (V Semester) Examination, March 2011
SYSTEM PROGRAMMING

Time : 3 Hours

Max. Marks : 80

- Instructions :** 1) Answer *all* questions in Part – A, 6 out of 8 questions in Part – B and 3 out of 5 questions in Part – C.
2) Part – A : Questions from 1 to 8 carry 1 mark *each* and 9 to 14 carry 2 marks *each*.
3) Part – B : *Each* question carries 5 marks.
4) Part – C : *Each* question carries 10 marks.

PART – A

1. Name the different kinds of programming.
2. What is an addressing mode ?
3. Give the syntax of load instruction of SIC.
4. What is RISC ?
5. Classify the network based on topology.
6. Define Encapsulation.
7. Name the types of assemblers.
8. What is bootstrap loader ?
9. Define linker.
10. What is relocation ?
11. Define GUI.
12. Distinguish between compiler and interpreter.
13. What does lexical analyzer do ?
14. What is a reduced grammar ? Give example.

P.T.O.

PART – B

1. Name the addressing modes of SIC. Explain how target address is used.
2. Explain the instruction set of RISC.
3. Explain Internet Architecture.
4. What is an IP address ? Explain its architecture.
5. Explain the data structure used by assembler.
6. Explain program relocation with example.
7. List the functions performed by loader and explain.
8. Explain macro definition and expansion.

PART – C

1. Explain simple SIC assembler.
 2. Explain pass1 of assembler with algorithm.
 3. Write a note on Lex and Yacc.
 4. Explain the phases of compiler in detail.
 5. Explain grammar in detail.
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