MCA – 44

IV Semester M.C.A. Examination, Feb./March 2010
SYSTEM PROGRAMMING

Time : 3 hours Max. marks : 100

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

PART – A

1. What is Application Software ?
2. Define Assembler.
3. What is a Text Editor ?
4. Define Compiler.
5. What is a Token ?
6. Define Optimization.
7. What is a Literal Table ?
8. What is CgADDR ?
9. Explain the function of LTORG.
10. Write about Application Layer ?
11. Write any three Assembler Directives ?
12. What is an IDE ?
13. What is the use of Operator Precedence Parsing ?
14. Write about Dead Code Elimination ?

P.T.O.

PART – B

1. Write the algorithm for Pass-1 and Pass-2 assembler ?
2. Explain the elements of CIDR.
3. Write short notes on simple SIC assembler.
4. Write the features of machine independent assembler.
5. What are the types of One-Pass Assembler ? Explain.
6. Explain absolute loader.
7. How to determine external symbols ?
8. Explain typical features of text editor.

PART – C

1. Explain different phases of a compiler.
2. Describe Lex and Yacc with examples.
3. Explain common optimization algorithm.
4. What are the advantages and disadvantages of general purpose macroprocessor ?
5. Explain the structure of an editor.
6. Discuss macroprocessor.

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