Code No. **41**

Total No. of Questions : 37]   [Total No. of Printed Pages : 4

March, 2009

COMPUTER SCIENCE

Time : 3 Hours 15 Minutes]   [Max. Marks : 90

PART – A

Note :   i)   Answer *all* the questions.

ii)   Each question carries *one* mark.   10 × 1 = 10

1.   Where is L1 cache located ?

2.   Expand CMOS.

3.   What is the other name of Bubble sort ?

4.   Write any *one* advantage of structured programming.

5.   Can an array store more than one type of variable ?

6.   Define recursion.

7.   What is a tuple ?

8.   What is a master file ?

9.   What is a topology ?

10. What is the use of HTML ?

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PART – B

Note :   i)   Answer any *ten* questions.

ii)   Each question carries *two* marks.   10 × 2 = 20

11.   List the different plug-and-play USB devices.

12.   Write any *two* properties of top down analysis.

13.   Write an algorithm for linear search.

14.   Explain the different methods of inputting strings.

15.   What are the uses of '∗' and '&' operators with reference to pointers ?

16.   Write any *two* differences between structure & an array.

17.   Give the syntax for Function Call with an example.

18.   What is Distributed data system ?

19.   Write any *two* advantages of Electronic data processing.

20.   Explain any *two* Arithmetic functions of MS-Excel.

21.   Mention the different data types available in SQL.

22.   Name any *two* Web browsers.

PART – C

Note :   i)   Answer the following questions.

          ii)   Each question carries *five* marks.   8 × 5 = 40

A.   Answer any *two* questions :

23.   Briefly explain the general structure of a CPU.

24.   Describe the evolution of intel microprocessor.

25.   Explain any *five* symptoms of a computer virus.

B.   Answer any *one* question :

26.   Explain the Binary search method with a suitable example.

27.   Write an algorithm to find the maximum element in an array.

C.   Answer any *three* questions :

28.   Write a *C* program to count the frequency of a digit in a given number.

29.   Explain any *five* character manipulation functions.

30.   Define :

    a)   Formal parameters

    b)   Actual parameters

    c)   Local variables

    d)   Global variables

    e)   Register variables.

31.   Explain any *five* types of File access modes with their syntax.

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D.   Answer any *two* questions :

32.   Explain data processing cycle in detail.

33.   Write a note on different types of information.

34.   What are the different services of Network Operating System ? Explain.

PART – D

Note :   i)   Answer any *two* questions.

ii)   Each question carries *ten* marks. $2 \times 10 = 20$

35.   Write a flow chart to find the sum of two matrices of order $m \times n$.

36.   Write a recursive function to find the factorial of a number.

37.   i)   Explain UPDATE & DELETE commands in SQL.   4

ii)   Explain any *four* HTML tags.   4

iii)   Write any *two* applications of Smart cards.   2