

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. $10 \times 1 = 10$

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.

$10 \times 2 = 20$

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.

$8 \times 5 = 40$

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

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