

**Computer Science**

**2009 March**

**Science 2nd PUC (12th)**

**University Exam**

**Department of Pre-University**

**Education Karnataka (PUE Board)**

shaalaa.com

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 × 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.

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ii) Explain any *four* HTML tags.

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

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