

**Computer Science**

**2006 March**

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

**University Exam**

**Department of Pre-University**

**Education Karnataka (PUE Board)**

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Code No. **41-NS**

Total No. of Questions : 37 ]

[ Total No. of Printed Pages : 4

**March/April, 2006**

**COMPUTER SCIENCE**

( New Syllabus )

Time : 3 Hours ]

[ Max. Marks : 90

**PART - A**

Note : i) Answer all the questions.

ii) Each question carries one mark.

10 × 1 = 10

1. Name any one component of CPU.
2. What is cache memory ?
3. What is top-down analysis ?
4. Define one-dimensional array.
5. What is a string ?
6. What is meant by information ?
7. Give an example for real time processing system.
8. Expand SQL.
9. How is LAN different from WAN ?
10. Mention any one HTML tag.

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**PART - B**

Note : i) Answer any ten questions.

ii) Each question carries two marks.

10 x 1

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11. List the factors for the failure of the computer.
12. What is binary search? When is it applicable?
13. Explain the concept of structured programming.
14. What are the different methods of inputting strings? Give examples.
15. How do you represent matrix using arrays? Give one example.
16. Explain the general structure of a function in detail.
17. How can an element of a structure be accessed? Explain with a suitable example.
18. Explain the creation of pointer with an example.
19. Explain a transaction file.
20. Write any two applications of on-line systems.
21. Explain any two services of network operating system.
22. Explain E-Commerce.

**PART - C**

Note : i) Answer the following questions.

ii) Each question carries *five* marks.

8 × 5 = 40

A. Answer any *two* questions :

23. Explain different components of mother-board.

24. Explain in brief evolution of microprocessors.

25. Write a note on computer virus.

B. Answer any *one* question :

26. Write an algorithm to perform selection sort.

27. Explain the different activities involved in top-down analysis of algorithms with an example each.

C. Answer any *three* questions :

28. Write a C program to find the sum of given two matrices.

29. Explain recursion with suitable example.

30. Compare the use of structures and unions with a suitable programming example.

31. Explain any five functions associated with file.

D. Answer any *two* questions :

32. Explain data processing system.

33. Give the merits and demerits of random file organization.

34. Write a note on UNIX.

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**PART - D**

Note : i) Answer any *two* questions.

ii) Each question carries *ten* marks.

2 × 10 = 20

35. Draw a flow-chart to find frequency of presence of a digit in a given number.
36. Write a C program to find row sum and column sum for each row and each column of a given matrix.
37. i) Explain insertion operation in database. 2
- ii) Write any four advantages of e-mail. 4
- iii) Write general features of Windows NT. 4