

**Computer Science**

**2008 March**

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

**University Exam**

**Department of Pre-University**

**Education Karnataka (PUE Board)**

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Code No. 41

Total No. of Questions : 37 ]

[ Total No. of Printed Pages : 4

March, 2008

## 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. What is the function of UPS ?
2. Expand PCI.
3. Define Sorting.
4. Write a syntax for one-dimensional array declaration.
5. What is recursive function ?
6. What is pointer ?
7. Define primary key.
8. Give any one built-in function of spread sheet.
9. Expand WAN.
10. What is the purpose of smart card ?

[ Turn over

**PART - B**

- Note :
- i) Answer any ten questions.
  - ii) Each question carries two marks.

10 × 2 = 20

11. Give the specifications of Dot Matrix printers.
12. Mention any two advanced I/O interfaces.
13. Briefly explain the analysis of Insertion sort method.
14. Mention the various programming constructs of structured programming.
15. Explain any two properties of Top down approach.
16. What is a string ? How do you declare a string variable in C ?
17. What do you mean by actual arguments and formal arguments ?
18. Give the difference between fscanf( ) and fprintf( ) functions.
19. Mention the difference between array data type and structure data type.
20. Define master file and transaction file.
21. Write any two advantages of direct Access file organization.
22. List any two HTML tags.

**PART - C**

Note : i) Answer the following questions.

ii) Each question carries five marks.

8 × 5 = 40

A. Answer any *two* questions :

23. Explain any five components of CPU.

24. What is secondary memory ? Explain any one in detail.

25. Explain Cache memory in detail.

B. Answer any *one* question :

26. Write an algorithm for the Linear search method.

27. Sort the following elements using selection sort :

25 42 10 33 11 06.

C. Answer any *three* questions :

28. Explain any five string built-in functions available in C.

29. Write a C program to find *n* Fibonacci numbers.

30. Explain the working of "Function with arguments and no return values" with syntax and example.

31. Explain the declaration and initialization of two-dimensional array with example.

D. Answer any *two* questions :

32. Compare Manual data processing with Electronic data processing.

33. What is Batch processing system ? Write any two advantages and two disadvantages of it.

34. Give any five Network Operating System Services.

[ Turn over

**PART - D**

Note : i) Answer any two questions.

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

35. Write a flowchart to find the product of two matrices.
36. Write a C program to find the factorial of a given number using recursive function.
37. i) What is Structured Query Language ? Write the SQL command for deleting tuple ( row ) from the database. 2
- ii) Write any four advantages of computer network. 4
- iii) Write a short note on Electronic data interchange. 4
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