

Computer Science

2007 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]

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March/April, 2007

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. Mention any two input devices.
2. What is a microprocessor ?
3. Define the term 'modularity'.
4. What is the main disadvantage of linear search method ?
5. What is a function prototype ?
6. How do we declare a file ?
7. What is meant by tuple ?
8. Expand ISAM.
9. Name any one web browser.
10. Write any one feature of Unix OS.

[Turn over

PART - B

Note : i) Answer any ten questions.

ii) Each question carries two marks.

10 × 2 = 20

11. Explain USB port.

12. Explain briefly the function of ALU.

13. Justify the need for sorting and mention any one sorting technique.

14. What is top down design ?

15. Mention the different methods of outputting strings. Give examples.

16. What is union ? How is it defined ?

17. What is Call by value ?

18. Explain transaction file.

19. Differentiate between Max () and Min () built-in functions in a spreadsheet.

20. List any two differences between manual and electronic data processing.

21. Write any two advantages of DBMS.

22. Briefly explain E-mail.

PART - C

Note : i) Answer the following questions.

ii) Each question carries five marks.

8 × 5 = 40

- A. Answer any two questions :
23. Explain the power consumption of a PC.
 24. Explain the different causes for computer failure.
 25. Write a note on different types of printers.
- B. Answer any one question :
26. Write an algorithm to find the minimum element in an array.
 27. Explain the steps involved in Binary search method with an example.
- C. Answer any three questions :
28. Write a C program to find the sum of the series
 $1 + x + x^2 + x^3 + x^4 + \dots + x^n$.
 29. Explain any five character manipulation functions.
 30. What are the different categories of functions available in C ? Explain any one with example.
 31. Explain any five file accessing modes.
- D. Answer any two questions :
32. Mention and explain the different types of information.
 33. Explain the sequential file organization with an example.
 34. Explain the electronic cash and mention any two drawbacks.

[Turn over

PART - D

Note : i) Answer any *two* questions.

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

35. Draw a flow-chart to check whether the given matrix is symmetric or not.

36. Write a C program to find the value of x^n where $n > 0$, $n = 0$, $n < 0$, using recursive function.

37. i) What are Secondary key and Foreign key ? 2

ii) What is HTML ? Explain any four HTML Tags. 5

iii) Write a note on LINUX operating system. 3