# Computer Science

2011 March

Science 2nd PUC (12th)

**University Exam** 

Department of Pre-University

Education Karnataka (PUE Board)

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## March, 2011

### 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. Which component of the CPU stores the memory address of the next instruction to be executed?
- 2. When it is not possible to perform the operation of binary search?
- 3. Define iteration.
- 4. Give the syntax of function prototype.
- 5. How do we assign an address to a pointer variable?
- 6. What is meant by information?
- 7. Define secondary key.
- 8. Name any one client-server network operating system.
- Expand EDI.
- 10. What does chatting mean?

[ Turn over

## PART - B

		Note: i) Answer any ten questions.
		ii) Each question carries <i>two</i> marks. $10 \times 2 = 20$
	11.	Give the specifications of inkjet printer.
	12.	Analyze the insertion sort method of sorting data.
	13.	Construct a top-down design to find the average of 3 numbers.
	14	Write the statements to show the input and a to the
	14.	Write the statements to show the input and output operations of a one-
		dimensional array.
	15.	If str = "Computer Science" then what is stored in str with the following
		input statements?
		i) scanf ("%s", str);
		ii) gets ( str );
	16	Wester the general state of the
	10.	Write the general structure of a user-defined function.
	17.	How are individual elements of a structure accessed? Give example.
	18.	Write any two advantages of distributed data processing system.
	19.	Define the following:
		i) Tuple
		III Demote
7.		ii) Domain.

- 20. Explain any two logical functions of MS-Excel.
- 21. What is network topology? Mention any two.
- 22. What is the use of mark-up languages? Name any one.

#### PART - C

Note: i) Answer the following questions.

ii) Each question carries five marks.

 $8 \times 5 = 40$ 

- A. Answer any two questions:
  - 23. Explain any five factors affecting the processing speed of a CPU.
  - 24. What are the different types of I-O ports? Explain any two.
  - Explain briefly any five activities ( periodic check-up ) performed in computer maintenance.
- B. Answer any one question :
  - 26. Write an algorithm to search an element in an array using binary search.
  - 27. Sort the following elements in ascending order using bubble sort :

55, 44, 33, 22, 11

- C. Answer any three questions :
  - 28. Write a C program to find the frequency of a character in a given string.
  - 29. What are storage classes? Explain any two.
  - 30. What is call-by-reference? Explain with a suitable example.
  - 31. Explain any five types of file access modes with examples.

Turn over

- D. Answer any two questions:
  - 32. Explain different qualities of information.
  - 33. Explain sequential file organization.
  - 34. Mention the different communication modes. Explain any two.

PART - D

Note: i) Answer any two questions.

ii) Each question carries ten marks.

 $2 \times 10 = 20$ 

- 35. Draw a flowchart to find the row sum and column sum for each row and each column of a given matrix.
- 36. Write a C program to find the factorial of a number using recursive function.
- 37. i) Explain any two HTML tags.

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- Explain any two types of select command in SQL with syntax and example.
- iii) Write any two advantages and disadvantages of E-commerce.

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