Code No. 41

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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.
- 9. Expand EDI.
- 10. What does chatting mean?

ii)

Domain.

PART - B

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

- 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.
 - 25. 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.

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