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9.

10. Mention any one HTML tag.

Total No. of Questions: 37] [Total No. of Printed Pages: 4

June/July, 2009

COMPUTER SCIENCE Time: 3 Hours 15 Minutes] [Max. Marks : 90 PART - AAnswer all the questions. Note: i) ii) Each question carries one mark. $10 \times 1 = 10$ What is the function of Instruction Register? 1. 2. Expand UPS. Define modularity. 3. What is searching? 4. 5. Give one characteristic of the subscript of an array. What is the significance of * operator in pointers? 6. Expand DML. 7. 8. Define alternate key.

What is the main disadvantage of ring network topology?

[Turn over

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PART - B

- *Note*: i) Answer any ten questions.
 - ii) Each question carries *two* marks. $10 \times 2 = 20$

- 11. Write any two impact printers.
- 12. Mention different iterative programming constructs.
- 13. Construct a top-down module chart for finding the area of a rectangle.
- 14. How do you declare and initialize one-dimensional array?
- 15. Give the syntax for strrev () and strcmp ().
- 16. Write a structure definition for a student with the following fields:

Regno, Name, Combination, Totalmarks.

- 17. Mention any two differences between call by value and call by reference.
- 18. List the steps involved in data processing cycle.
- 19. Write any two applications of on-line system.
- 20. Define DBMS. Name any one DBMS package.
- 21. Explain any two DATE functions used in spreadsheets.
- 22. What are the different internet services?

PART - C

Note : i) Answer the following questions.

ii) Each question carries *five* marks.

 $8 \times 5 = 40$

- A. Answer any *two* questions :
 - 23. Briefly explain any five components of motherboard.
 - 24. Write the approximate power consumption of various components of a PC.
 - 25. What is a computer virus? Explain any *two* viruses. Name any *two* antivirus software.
- B. Answer any one question:
 - 26. Trace binary search algorithm to find the location of the element 22 in the following list:

22, 33, 49, 57, 75

- 27. Write an algorithm for insertion sort.
- C. Answer any three questions:
 - 28. Write a *C* program to read and print elements of two-dimensional array.
 - 29. List the different categories of user defined functions. Explain any one.
 - 30. Write a *C* program to count number of vowels and consonants present in a given string.
 - 31. Explain the various file handling functions available in *C*.

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D.	Answer any two questions:					
	32.	2. Write merits and demerits of sequential file organisation.				
	33.	33. Write the qualities of information.				
	34. Explain <i>e</i> -commerce.					
PART – D						
		Note :	i)	Answer any two questions.		
			ii)	Each question carries ten marks.	2 × 10 = 20	
35.	Write a flowchart to find the sum of the series :					
	$1 + x + x^2 + x^3 + \dots + x^n$					
36.	Write a recursive function to compute x^n , where $n = 0$, $n < 0$ and $n > 0$.					
37.	i)	Write a	note	on functional overview of Unix operating syst	em. 4	

Explain different types of computer network.

Write Syntax for INSERT command in SQL.

ii)

iii)

4

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