

Subject Code : 41

March, 2014

# COMPUTER SCIENCE

Time : 3 Hours 15 Minutes ] [ Total No. of Questions : 37 ]

[ Max. Marks : 90

## PART - A

Note : i) Answer *all* the questions.

ii) Each question carries *one* mark.

10 × 1 = 10

1. Expand SMPS.
2. Name any one secondary storage device.
3. What is searching ?
4. What is an array ?
5. Give the syntax of the string declaration.
6. Define pointer.
7. What is information ?
8. What is domain ?
9. Define network topology.
10. What is E-commerce ?



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**PART - B**

Note : i) Answer any *ten* questions.

ii) Each question carries *two* marks.

10 × 2 = 20

11. Give the specifications of inkjet printer.
12. Name any two anti-viruses available in the market.
13. Analyse the Bubble Sort method.
14. Construct a top down model design chart to find simple interest.
15. Mention the characteristics of the subscript of an array.
16. What are Built-in functions ? Mention any two.
17. Mention the different storage classes.
18. What is a file ? How is it defined in C ?
19. Write the different stages of data processing.
20. Name the data types available in SQL.
21. What are the communication modes ? Explain any one.
22. Write any two advantages of E-mail.



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**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 Mother Board.
24. Explain the typical causes of computer system failures.
25. Write a note on cache memory with a neat diagram.

B. Answer any *one* question :

26. Write an algorithm for insertion sort.
27. Apply Binary Search Method to find the value 43 in an array containing the following values :  
15, 23, 38, 43, 56, 60.

C. Answer any *three* questions :

28. Write a C program to find the sum of the series :

$$1 + X + X^2 + X^3 + \dots + X^n$$

29. Explain any five string handling functions with their syntax and examples.
30. Explain the general format of "function with arguments and no return values" with example.
31. What is a structure ? Give the declaration syntax and example.

D. Answer any *two* questions :

32. Write the differences between manual and electronic data processing.
33. Explain sequential file organization.
34. Write a note on Batch data processing system.



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**PART - D**

Note : i) Answer any *two* questions.

ii) Each question carries *ten* marks.

2 × 10 = 20

35. Design a flow-chart to find row sum and column sum for each row and each column of a given matrix.
36. Write a C program to find *n*th Fibonacci number using recursive function.
37. a) Explain internet services.
- b) Write general features of LINUX operating system.

