

Total No. of Questions : 37]

Code No. **41**

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June/July, 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 × 1 = 10

1. Expand SMPs.
2. Define sorting.
3. Write any *one* disadvantage of structured programming.
4. What is the function of strcmpi () in C ?
5. Why is return () used in C ?
6. Define strategic information.
7. What is structured query language ?
8. Write any *one* disadvantage of client-server network.
9. Mention any *one* HTML tag.
10. Write any *one* advantage of E-mail.

[Turn over

PART - B

Note : i) Answer any *ten* questions.

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

11. Give the specifications of dot-matrix printer.
12. Design the top-down structure for finding area of circle.
13. Explain selection construct with the help of a flowchart.
14. Write the purpose of static variable with declaration syntax.
15. Write a program segment to display the contents of two-dimensional array.
16. What is Call-by-reference ? Give an example.
17. Write the syntax and example for fscanf () in C.
18. Mention any *two* examples for real time processing.
19. Differentiate between physical and logical file organisations.
20. Define candidate key and foreign key.
21. Write any *two* arithmetic built-in functions of MS-Excel.
22. Explain ring topology.

PART - C

Note : i) Answer the following questions.

ii) Each question carries *five* marks. 8 × 5 = 40

A. Answer any *two* questions :

23. Briefly explain the general structure of CPU with a neat diagram.
24. What is secondary memory ? Explain any *one*.
25. Explain how instructions are executed in a CPU.

B. Answer any *one* question :

26. Write an algorithm for binary search technique.
27. Apply selection sort method to arrange the following values in ascending order :

35 8 41 20 6.

C. Answer any *three* questions :

28. Write a C program to find the sum of the digits of a number until resulting value is a single digit.
29. What is a pointer ? Give the syntax and an example. Mention any *two* pointer operations.
30. Write the differences between struct and union in C.
31. Explain function with arguments and no return value, with syntax and programming example.

D. Answer any *two* questions :

32. What is Indexed sequential file organisation ? Explain.
33. List any *five* advantages of database management system.
34. Explain E-payment.

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PART - D

Note : i) Answer any *two* questions.

ii) Each question carries *ten* marks. $2 \times 10 = 20$

35. Draw a flowchart to find product of two matrices.
36. Write a C program to find second largest of N numbers without sorting the array.
37. i) Mention and explain the different switching techniques. 4
- ii) What is a Macro in MS-Excel ? Explain with an example. 4
- iii) What is search engine ? Give an example. 2
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