

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

Code No. **41**

June/July, 2010
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. What are the expansion slots ?
2. Write any one advantage of top-down approach.
3. What is worst case in sorting ?
4. Give the function of 'typedef' in C.
5. What is a pointer ?
6. Define operational information.
7. What is data manipulation language ?
8. Define computer network.
9. Expand www.
10. What is voice 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 laser printer.
12. Design an algorithm to find minimum value in an array of n values.
13. Define structured programming.
14. What is the purpose of register variable ? Write the declaration syntax for register variable in C.
15. Write a C program segment to accept the contents of a single dimensional array.
16. What is call by value ? Give an example.
17. Explain the function of a file pointer.
18. Write any two advantages of DBMS.
19. Mention any two database operations.
20. Explain relational database model.
21. Write any two built-in functions in MS-Excel.
22. Explain Bus topology.

PART – C

Note : i) Answer the following questions.

ii) Each question carries *five* marks.

8 × 5 = 40

A. Answer any *two* questions :

23. Mention the factors for the failure of a computer.

24. Write a note on cache memory.

25. Explain computer security.

B. Answer any *one* question :

26. Write an algorithm for selection sort technique.

27. Apply linear search method to find the value 43 in an array containing following values :

38, 40, 31, 28, 43, 45, 60.

C. Answer any *three* questions :

28. Write a C program to remove blanks and punctuations in a given text.

29. What is a structure ? Give declaration syntax and example for struct in C.

30. Compare strcmp () and strcmpi () in C. Give examples for each.

31. Explain function with no argument and no return value with a programming example.

D. Answer any *two* questions :

32. Discuss merits and demerits of direct file organisation.

33. Explain batch processing. Give an example.

34. Explain smart card.

[Turn over

PART – D

Note : i) Answer any *two* questions.

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

35. Draw a flowchart to find second largest of n values in an array without sorting.

36. Write a C program to print n th Fibonacci numbers using recursive function.

37. i) List the features of WIN-NT.

ii) Give the syntax and examples for any two SQL commands.

iii) Expand HTML. Write the use of HTML.

