Total No. of Questions : 37] **Code No. 41**

Total No. of Printed Pages : 4]

March, 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. Expand the term SMPS.

2. Define cache memory.

3. What is a module ?

4. What is the main disadvantage of the Linear search method ?

5. What character does represent the end of each string ?

6. What is the main difference between structure & union ?

7. Define data.

8. Expand ISAM.

9. Name any *one* data switching technique in computer networks.

10. What is a website ?

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PART – B

Note : i) Answer any *ten* questions.

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

11. Name any *two* microprocessor manufacturing companies.

12. What are the different types of structured programming constructs ?

13. Construct a top down design model chart to find the simple interest.

14. What is an array ? Mention different types of arrays.

15. What are the different methods of outputting strings ?

16. What are actual & formal arguments ?

17. Write the syntax of a structure definition with an example.

18. Name any *two* types of Information.

19. What is batch processing system ? Give one application.

20. Compare master file with transaction file.

21. Write the syntax and example for deleting a table using DROP.

22. Mention any *two* types of *e*-commerce.

PART – C

Note : i) Answer the following questions.

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

A. Answer any *two* questions :

23. Specify the current configuration of a PC available in the market.

24. Explain the typical causes of a system failure.

25. What are the different types of printers ? Explain any *one*.

B. Answer any *one* question :

26. Write an algorithm for bubble sort.

27. Mention the objectives of structured programming.

C. Answer any *three* questions :

28. Write a *C* program to find the sum of digits of a number until resulting value is a one digit number.

29. Explain the various operations performed on strings with their syntax & examples.

30. Write the structure of a function & explain with an example.

31. Write a *C* program to find the sum of the series, $1 + X + X^2 + ... + X^n$.

D. Answer any *two* questions :

32. Give the difference between manual and electronic data processings.

33. What is file organization ? Explain the direct file organization technique.

34. Explain the advantages of DBMS.

PART – D

Note : i) Answer any *two* questions.

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

35. Write a flowchart to find sum of all elements in upper diagonal and lower diagonal of a square matrix.

36. Write a *C* program to find *n*th Fibonacci number using recursive function.

37. i) Briefly explain ring topology. 2

ii) What are the advantages of *e*-mail ? 4

iii) Write the general features of UNIX operating system. 4