Total No. of Questions : 37]

Total No. of Printed Pages : 4]

Code No. **41**

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.

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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

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