**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 ?

## PART – *B*

*Note :*    i)    Answer any *ten* questions.

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

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.

# PART – C

*Note :* i) Answer the following questions.

     ii) Each question carries *five* marks.

$8 \times 5 = 40$

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 :

$$1 + X + X^2 + X^3 + \ldots + X^n.$$

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.          $2 \times 10 = 20$

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.

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