

DAY - 13

SEAT NUMBER

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2015	III	12	1100	V - 634	(E)
<b>COMPUTER SCIENCE</b> <b>PAPER - I (D-9)</b>					
Time : 3 Hours		4 Pages		Max. Marks : 50	

- Instructions :** (1) All questions are compulsory.  
(2) Figures to the right indicate full marks.  
(3) Use of any type of calculator is not allowed.  
(4) Draw a neat diagram wherever necessary.

1. (A) Select correct options from the following and rewrite sentences :
- (a) The time required to move R/W Head to the particular track is called \_\_\_\_\_.  
(i) Latency Time  
(ii) Seek Time  
(iii) Waiting Time  
(iv) Response Time
- (b) \_\_\_\_\_ data structure does not require contiguous memory allocation. 1  
(i) Array  
(ii) String  
(iii) Pointer Array  
(iv) Linked List
- (c) Object Oriented Programming uses \_\_\_\_\_ approach of Programming. 1  
(i) Linear  
(ii) Non-linear  
(iii) Top down  
(iv) Bottom up

- (d) The valid attribute of <A> is \_\_\_\_\_. 1
- (i) NAME
  - (ii) SRC
  - (iii) BGOLOR
  - (iv) HEIGHT
- (B) Answer **any two** of the following :
- (a) What is Virtual Memory ? Explain any two elements of Virtual Memory. 3
  - (b) What is Data Structure ? Define Array and Pointer Array in data structure. 3
  - (c) Give function of following tags with an example of each : 3
    - (i) <IMG>
    - (ii) <EM>
    - (iii) <DL>
2. (A) Answer **any two** of the following :
- (a) Give three differences between WORM and VIRUS. 3
  - (b) Write an algorithm to find smallest element in an Array. 3
  - (c) Define the following terms in C++ : 3
    - (i) Data Abstraction
    - (ii) Operator Overloading
    - (iii) Data Encapsulation
- (B) Solve **any one** of the following :
- (a) What is System Call ? List any two System Calls for Memory Management, Process Management and Information Management. 4
  - (b) What is Virtual Function in C++ ? Give any six rules to write Virtual Functions. 4
3. (A) Solve **any two** of the following :
- (a) Explain Multiuser and Time Sharing Operating Systems. 3
  - (b) Define : 3
    - (i) Tree
    - (ii) Binary Tree
    - (iii) Extended Binary Tree
  - (c) What is Function Overloading ? Give examples of Function Overloading. 3

- (B) Solve **any one** of the following :
- (a) Write an algorithm for Binary Search Method. Explain algorithm with suitable example. 4
  - (b) What is Constructor and Destructor in C++ ? Give example of Constructor and Destructor in a class. 4
4. (A) Solve **any two** of the following :
- (a) What is File System ? List and explain types of File Systems used in OS. 3
  - (b) With suitable example explain how tree can be represented in Memory ? 3
  - (c) What is Inheritance ? Explain any two types of Inheritances with Memory. 3
- (B) Solve **any one** of the following :
- (a) Give features of Windows 98 Operating System. 4
  - (b) What is Linked List ? How they can be represented in Memory ? 4
5. Solve **any two** of the following :
- (a) Write a program in C++ to accept two integer values in main function, pass them to function great() using call by value and find greater number, function great() should not return any value. 5
  - (b) Write a program in C++ to accept three integers from keyboard and find greatest number with using Condition Control. 5
  - (c) Write output of the following HTML program : 5
- ```

<HTML>
  <HEAD> <TITLE> abc </TITLE> </HEAD>
  <body>
    <H1 align = "center"> KBC Restaurant </H1>
    <TABLE border = 2>
      <TR> <TH Rowspan = "2">
        <Font Size = "5"> Pawbhaji </font>
      </TH>
      <TH> with cheese </TH>
      <TH> 35
  
```

```
</TR>
  <TR>
    <TH> without cheese
    <TH> 25
  </TR>
</TABLE>
</Body>
</HTML>
```

OR

5. Answer **any two** of the following :

- (a) Write a program in C++ to accept a string from keyboard and copy string into another string without using the Library Function. 5
  - (b) Write a program in C++ to find area of circle using class. 5
  - (c) Write a program in HTML for the following output : 5
    - (i) Arts
      - A. History
      - B. Geography
    - (ii) Science
      - I. Computer Science
      - II. Physics
    - (iii) Commerce
      - ☐ English
      - ☐ Accounts
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