

DAY - 17

SEAT NUMBER

<input type="text"/>					
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2024

III

12

1100

V - 264

(E)

**COMPUTER SCIENCE  
PAPER - I (D-9)**

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 not allowed.
  - (4) Draw a neat diagram whenever necessary.

1. Select the correct alternative and rewrite the sentence :

(a) \_\_\_\_\_ tag is used for scrolling the text on WebPage. 1

- (i) <Head>
- (ii) <UL>
- (iii) <MARQUEE>
- (iv) <SUP>

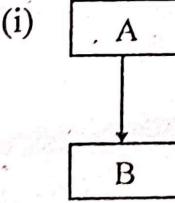
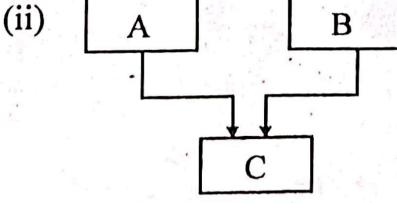
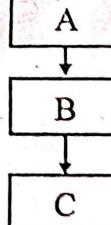
(b) \_\_\_\_\_ is a free operating system. 1

- (i) Unix
- (ii) Windows
- (iii) LINUX
- (iv) DOS

(c) \_\_\_\_\_ is a mechanism to achieve run time polymorphism. 1

- (i) Operator Overloading
- (ii) Virtual Function
- (iii) Function Overloading
- (iv) Constructor

- (d) Finding the location of given element is called as \_\_\_\_\_. 1
- (i) Searching
  - (ii) Sorting
  - (iii) Traversing
  - (iv) Inserting
- (B) Answer any two of the following : 3
- (a) Explain the following components of GUI :
    - (i) Menu Bar
    - (ii) Scroll Bar
    - (iii) Title Bar
  - (b) Write three distinct differences between Array and Linked List. 3
  - (c) Write any three advantages and disadvantages of HTML. 3
2. (A) Answer any two of the following : 3
- (a) Define Data Structure. Explain any four operations of Data Structure.
  - (b) Write any three distinct differences between Procedure Oriented and Object Oriented Programming.
  - (c) Write an algorithm to insert an element into linear array. 3
- (B) Answer any one of the following : 4
- (a) Define following term of operating system :
    - (i) External Priority
    - (ii) Internal Priority
    - (iii) Purchase Priority
    - (iv) Time Slice
  - (b) Write declaration statements in C++ for : 4
    - (i) Pointer to float type
    - (ii) An array of 10 real numbers
    - (iii) An array of 80 characters
    - (iv) An object of class student

3. (A) Answer any two of the following : 3
- (a) Explain following tags with example : 3
- (i) <BR>
  - (ii) <PRE>
  - (iii) <U>
- (b) What is the function of Information Management ? List any four system call in it. 3
- (c) What is Constructor ? Write any four rules for constructor function. 3
- (B) Answer any one of the following : 4
- (a) What is Binary Tree ? Draw Binary Tree for following expression : 4
- $$Y = (A + B) / (C - D)^2$$
- (b) Explain in short, any four ways by which system security can be attacked. 4
4. (A) Answer any two of the following : 3
- (a) What is Class ? Explain general form of class declaration. 3
- (b) What is Partitioning ? Explain fixed and variable partitioning of short. 3
- (c) Write the function of each of the following file stream classes : 3
- (i) ifstream
  - (ii) ofstream
  - (iii) filebuf
- (B) Answer any one of the following : 4
- (a) What is Inheritance ? Identify the types of inheritance of following diagram : 4
- (i) 
- (ii) 
- (iii) 
- (b) What is Virtual Memory ? Explain following terms in virtual memory : 4
- (i) page fault
  - (ii) dirty page

5. Answer any two of the following :

(a) Write a program in C++ to find Greatest Common Devisor (GCD) of two inputted number.

5

(b) Write a program in C++ to accept 10 integers in an array from keyboard and find largest element of array.

5

(c) Write HTML program for following table :

5

IND v/s ENG

IND 387	Yuvraj 183*
	Dhoni 83
ENG 238	Peterson 58
	Bopara 49
IND WIN by 149 Runs	

OR

5. Answer any two of the following :

(a) Write a program in C++ to create a class test having member functions getmarks () to read marks of two subjects and showsum () to display the total marks.

5

(b) Write a program in C++ to read three integers and find smallest of these numbers.

5

(c) Write HTML code to display following output :

5

LIST tag in HTML

- o Arts
    - 1. Hindi
    - 2. Marathi
  - o Commerce
    - Tally
    - Accounts
  - o Science
    - A. Physics
    - B. Chemistry
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