

DAY - 17

SEAT NUMBER

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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

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1

[P.T.O.]

- (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 :
- (a) Explain the following components of GUI : 3
    - (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 :
- (a) Define Data Structure. Explain any four operations of Data Structure. 3
  - (b) Write any three distinct differences between Procedure Oriented and Object Oriented Programming. 3
  - (c) Write an algorithm to insert an element into linear array. 3
- (B) Answer any one of the following :
- (a) Define following term of operating system : 4
    - (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 :

(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 :

(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 :

(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 ;

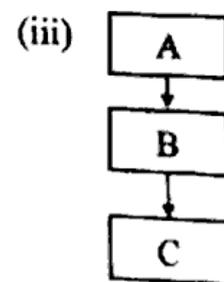
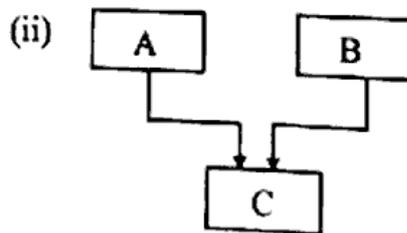
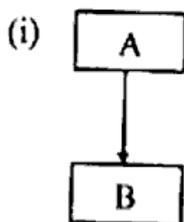
(ii) ofstream

(iii) filebuf

(B) Answer any one of the following :

(a) What is Inheritance ? Identify the types of inheritance of following diagram :

4



(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 Divisor (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

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

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