

Maharashtra Board

Question Paper 2024

Class 12



HSC

QUESTION PAPER

Presented By

AGLASEM.COM

*-2 in in
5 D*

DAY - 17

SEAT NUMBER

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| <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)
- ~~(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 :

(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 `float *ptr`
- (ii) An array of 10 real numbers `int arr[10]`
- (iii) An array of 80 characters `char arr[80]`
- (iv) An object of class student `student obj;`

3. (A) Answer any two of the following :

(a) Explain following tags with example : 3

(i)

(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

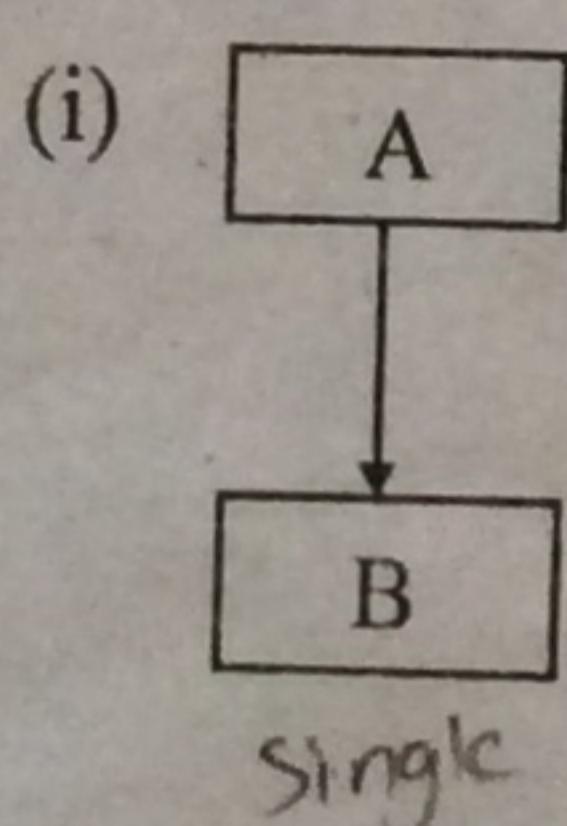
(i) ifstream in read

(ii) ofstream out write

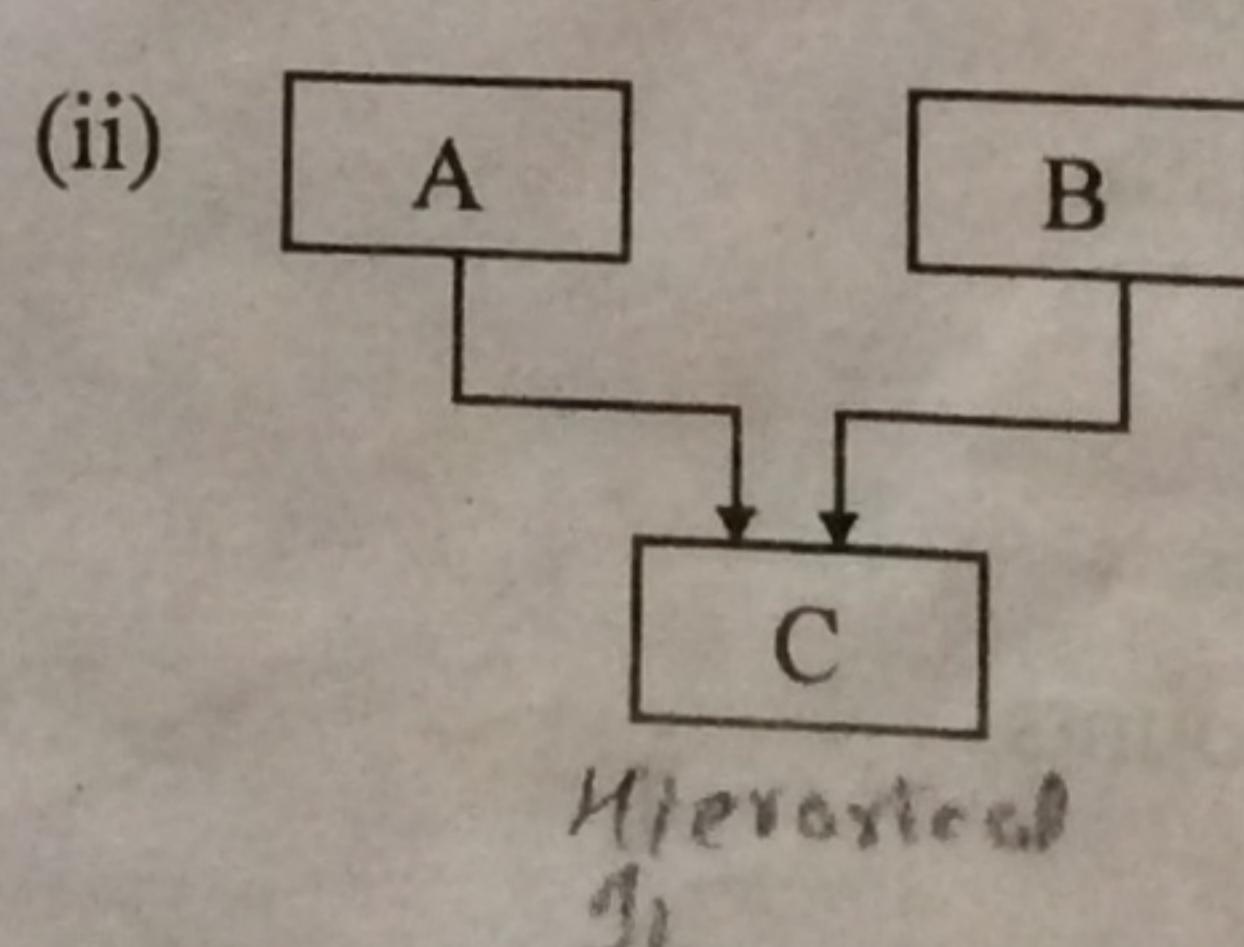
(iii) filebuf read / write

(B) Answer any one of the following :

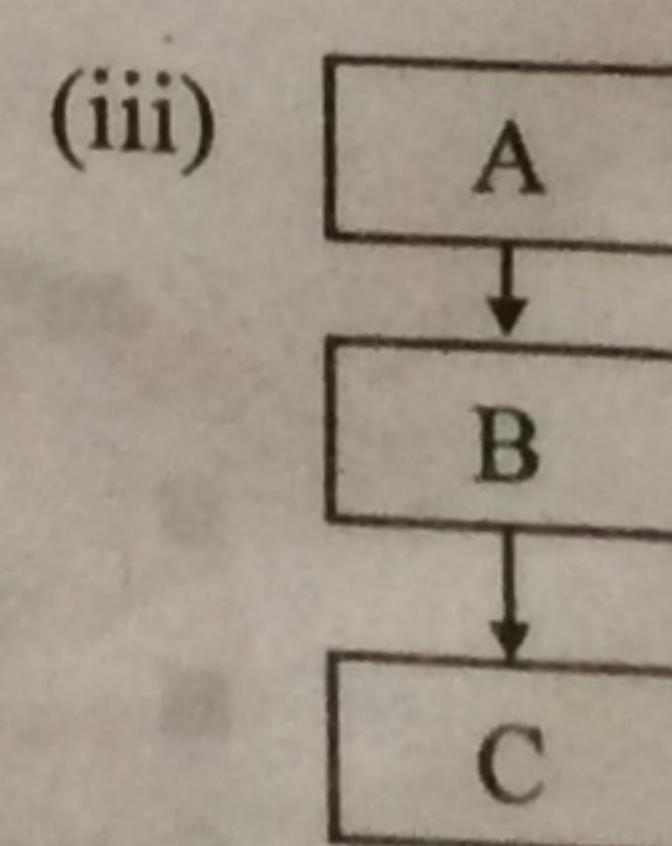
(a) What is Inheritance ? Identify the types of inheritance of following diagram : 4



Single



Hierarchical
Bi



multiple

(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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