



Marks : 50

Time : 8.15 am to 11.15 am

1. "Terminate a process" is the system call available in _____ management.
 - a) process
 - b) memory
 - c) Information
 - d) file
2. Accessing each element of an Array only once is called _____.
 - a) Locating
 - b) Selecting
 - c) Traversing
 - d) searching
3. A structure is a class whose all members are _____ by default.
 - a) protected
 - b) public
 - c) private
 - d) none of above
4. <A> tag has _____ attribute which defines URL of the document to be linked.
 - a) src
 - b) href
 - c) brc
 - d) Ref

1. What is operating system? Explain major services of operating system.
2. What is searching? Write Binary search Algorithm.
3. Explain the following Data structures with suitable diagrams.
 - 1) Linked List
 - 2) Binary tree
 - 3) Linear Array

Q.2 A) Answer the following. (Any two) (6)

1. What is class? Give general form of class declaration with suitable example.
2. What is HTML? State advantages and disadvantages of HTML.
3. What is Linked list? Show and explain linked list with example using labelled diagram.

B) Answer the following. (Any one) (4)

1. Explain any six data structure operations.
2. Explain the file system related to the Information management with File operations only.

Q.3 A) Answer the following. (Any two) (6)

1. Explain context switching at process level in multiprogramming system.
2. What is Binary tree? Draw the tree structure for following expression.
$$E = (a+b) / [(c * d) - e]$$
3. Explain constructor and Destructor with suitable example.

B) Answer the following. (Any one) (4)

1. What is Runtime and Compiletime polymorphism? Give example for anyone.
2. Explain following HTML tags with one example for each.
 - a) <Marquee>
 - b) <PRE>

Q.4 A) Answer the following. (Any two) (6)

1. Explain cellspacing, cellpadding, colspan and Rowspan attributes with suitable example.
2. Explain virtual function with example.
3. Explain the flowcharts for the following control structures.
 - a) sequential logic
 - b) Selection logic
 - c) Iteration logic

B) Answer the following. (Any one) (4)

1. Differentiate between computer worm and computer virus.
2. Explain Stack and Queue Data structure in detail.

Q.5 A) Answer the following. (Any two)**(10)**

1. Write a program in CPP to display table of a number, accept number from user.
2. Write a CPP program to implement a class 'circle', accept radius in float and calculate area of circle by include area().
3. Write exact output of following HTML program.

```
<HTML>

<title><Head>Sample Program</Head><Title>

<Body>

<UL> <LI>pune</LI>

        <OL> <LI>COEP</LI>

                <LI>PVG</LI>

                <LI>MIT</LI>

        </OL>

</UL>

</Body></Html>
```

OR

B) Answer the following. (Any two)**(10)**

1. Write a program in CPP to calculate factorial of given number.
2. Write a program in CPP to replace space between words of line with"-".
3. Write HTML program to print following output.

Roll no.	Class/Div	Marks	Year	RANK
1	11C	235	2025	1st
7	11D	235		
5	11B	210	2025	2nd



