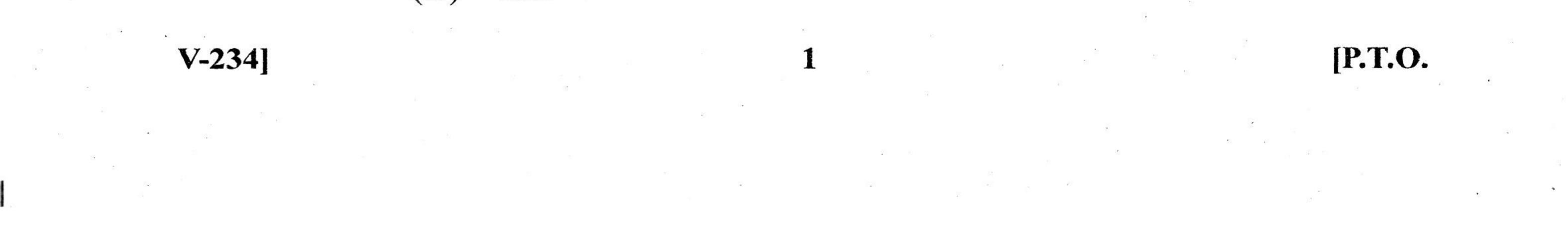


Instructions : (1) All questions are compulsory. (2) Figure to the right indicate full mark. (3) Use of any type of calculator not allowed. (4) Draw a neat diagram wherever necessary.

Select correct option from the following and rewrite sentence : 1. (A)

- The time lost in turning the attention of processor from one process (a) to another is called as
  - Circuit Switching (1)
  - Band Width (11)
  - Context Switching (iii)

  - Packet Switching (iv)
- A record is collection of (b)
  - Files (i)
  - (ii) Arrays
  - Fields (iii)
  - Maps (iv)
- If all visibility labels are missing then by default members of class (c) are
  - Public (i)
  - Protected (ii)
  - (iii) Private
  - Void (iv)



## (d) tag is used to put a line break in HTML Code. (i) <HR> (ii) <BR> (iii) <P> (iv) <LI>

- (B) Answer any two of the following :
  - (a) What is Friend Function ? Write any four characteristics of Friend Function.
  - (b) Explain in short the three special characteristic of a static data member in a class.
- (c) Discuss Virus Detection, Virus Removal and Prevention Philosophies. 3
   (A) Answer any two of the following :

3

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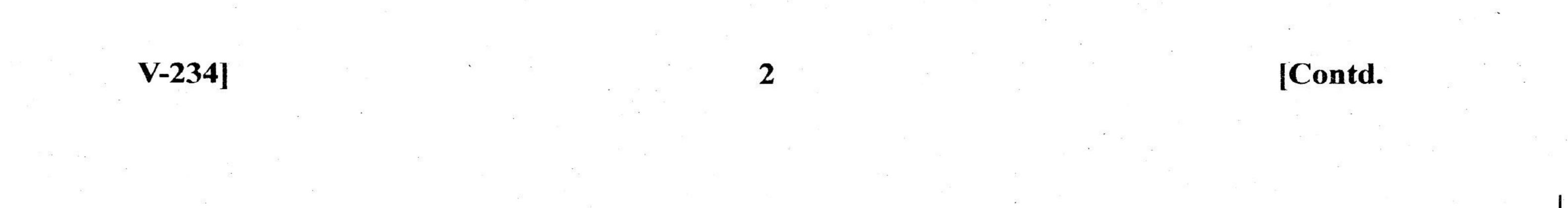
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3

- (a) Explain with flowchart the following control structure :
  - (i) Sequence Logic

2.

- (ii) Selection Logic
- (iii) Iteration Logic
- (b) Explain Bubble Sort Algorithm with suitable example.
- (c) What functions are performed by Memory Management of Operating System ? State any four Memory Management System.
- (B) Answer any one of the following :
  - (a) What is Operator Function ? Describe the syntax of an Operator Function. Explain the difference between Operator Function as the Member Function and Friend Function.
  - (b) With reference to process management. Explain the terms :
    - (i) External Priority
    - (ii) Purchased Priority
    - (iii) Internal Priority
    - (iv) Time Slice
- 3. (A) Answer any two of the following :
  - (a) Write difference between Linear Search and Binary Search.
  - (b) Explain different types of inheritance with suitable diagram.
  - (c) How linked list are represented in Memory ?



(B) Answer any one of the following :

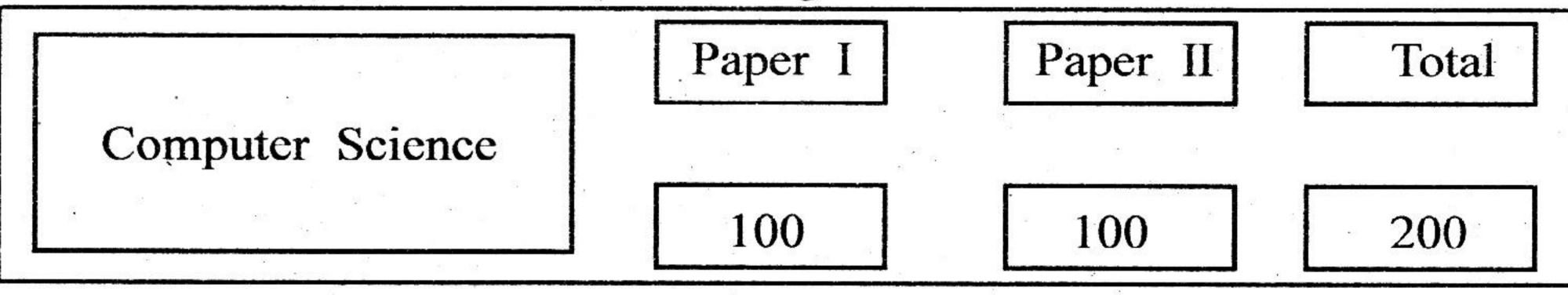
- (a) Define the following terms with reference to Tree :
  - (i) Root
  - (ii) Leaf
  - (iii) Sibling
  - (iv) Depth
- (b) What is Computer Virus ? What are the different method by which virus can infect other programs ?
- 4. (A) Answer any two of the following :
  - (a) With syntax diagram explain structure of HTML WebPage.
  - (b) Explain the concept of function overloading with example.
  - (c) Explain any three features of Windows-NT Operating System.(B) Answer any one of the following :
    - (a) State the various steps involved in the allocation of partition in case of fixed partition memory management.

3

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5.

- (b) Explain the use of Scope resolution Operator and Memory Management Operators in C++ with examples.
- 5. Solve any two of the following :
  - (a) Write a program in C++ to read a set of 10 numbers from keyboard and findout largest number in the given array.
  - (b) Write a program in C++ to find factorial of entered number.
  - (c) Write a code in HTML for following table :



 $\bigcirc$ 

OR



- Solve any two : 5.
  - Impliment class GCD which have member function (a/c), which calculate (a) greatest common divisor of two number entered during program execution. Print() will Print GCD of two number.
  - Write a C++ program to display a series of 15 term of the Fibonacci Series. 5 (b) Write the exact output of the following HTML Code with font specification (c) in backet.

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5

<html>

<title> Introduction </title>

<body>

<hl> <b> Computer Science </b> </hl>

<hr>

<u> Paper-I </u>

<hr>

<u> Paper-II </u>

</body>

</html/>

