

DAY - **16**

SEAT NUMBER

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2017 III 20

1100

**V – 234**

(E)

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

**Time : 3 Hours**

**4 Pages**

**Max. Marks : 50**

- 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.

1. (A) Select correct option from the following and rewrite sentence :
  - (a) The time lost in turning the attention of processor from one process to another is called as \_\_\_\_\_. 1
    - (i) Circuit Switching
    - (ii) Band Width
    - (iii) Context Switching
    - (iv) Packet Switching
  - (b) A record is collection of \_\_\_\_\_. 1
    - (i) Files
    - (ii) Arrays
    - (iii) Fields
    - (iv) Maps
  - (c) If all visibility labels are missing then by default members of class are \_\_\_\_\_. 1
    - (i) Public
    - (ii) Protected
    - (iii) Private
    - (iv) Void



- (d) \_\_\_\_\_ tag is used to put a line break in HTML Code. 1
- (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. 3
  - (b) Explain in short the three special characteristic of a static data member in a class. 3
  - (c) Discuss Virus Detection, Virus Removal and Prevention Philosophies. 3
2. (A) Answer **any two** of the following :
- (a) Explain with flowchart the following control structure : 3
    - (i) Sequence Logic
    - (ii) Selection Logic
    - (iii) Iteration Logic
  - (b) Explain Bubble Sort Algorithm with suitable example. 3
  - (c) What functions are performed by Memory Management of Operating System ? State any four Memory Management System. 3
- (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. 4
  - (b) With reference to process management. Explain the terms : 4
    - (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. 3
  - (b) Explain different types of inheritance with suitable diagram. 3
  - (c) How linked list are represented in Memory ? 3



(B) Answer **any one** of the following :

(a) Define the following terms with reference to Tree :

4

(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

4. (A) Answer **any two** of the following :

(a) With syntax diagram explain structure of HTML WebPage.

3

(b) Explain the concept of function overloading with example.

3

(c) Explain any three features of Windows-NT Operating System.

3

(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.

4

(b) Explain the use of Scope resolution Operator and Memory Management Operators in C++ with examples.

4

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.

5

(b) Write a program in C++ to find factorial of entered number.

5

(c) Write a code in HTML for following table :

5

	Paper I	Paper II	Total
Computer Science	100	100	200

OR

60



5. Solve **any two** :

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

```
<html>
<title> Introduction </title>
<body>
<h1> <b> Computer Science </b> </h1>
<hr>
<u> Paper-I </u>
<hr>
<u> Paper-II </u>
</body>
</html/>
```

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