

DAY - 16

SEAT NUMBER

--	--	--	--	--	--	--

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) Figures 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)

(iii) <P>
(iv)
- (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 : 4
- (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 : 3
- (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 : 4
- (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 : 5
- (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

Computer Science	Paper I	Paper II	Total
	100	100	200

OR

60

5. Solve any two :

(a) Implement 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 bracket. 5

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