

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)

(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 X

(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

Computer Science	Paper I	Paper II	Total
	100	100	200

OR

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/>
```
