Roll No. | | | | | | | | | | | | | Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(Electronics Engg./3D Animation & Graphics) (2012 Onwards)
B.Tech.(CSE/ECE/Electronics & Computer Engg./ETE/IT) (2011 Onwards)
(Sem.–3)

OBJECT ORIENTED PROGRAMMING USING C++

Subject Code : BTCS-305
Paper ID : [A1129]

Time : 3 Hrs. **Max. Marks : 60**

INSTRUCTION TO CANDIDATES :

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.**

SECTION-A

1. Write short notes on :

(a) What do you understand by the following two declarations?

a) const int *pOne;

b) int const *pTwo;

(b) What do you mean by garbage collection?

(c) Differentiate between static and dynamic binding.

(d) What is access specifier and its use?

(e) What is copy constructor and its use?

(f) What is the value of the following expression?

(! ((4 – 4 %3) < 5 && (6/4 > 3)))

(g) Define the term Multilevel Inheritance.

(h) What is meant by membership operator in C++?

(i) Name various standard classes of C++.

(j) What is Pure virtual function?

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SECTION-B

2. Write a program to compare the two given strings using a pointer.

3. What are templates? Write a function template to find the minimum of three numbers.

4. What is a nested class? What are its advantages? How it is defined and declared in C++?

5. What is virtual destructor? What is the use of declaring it under multiple inheritances?

6. Explain the various techniques of defining pure virtual function.

SECTION-C

7. Discuss the term function overloading. Write a program using function overloading for subtracting two given integer matrices; two floating matrices and double precision matrices separately.

8. Describe the terms private inheritance and protected inheritance with the help of an example program.

9. (a) What is an exception? Why it is necessary to handle an exception by special code?

   (b) What are files and how these are handled in C++?

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