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Roll No.....

3rd SEMESTER

B.Tech.

END SEMESTER EXAMINATION

Nov./Dec.-2019

PAPER CODE: CO 203 Object Oriented Programming

Time: 3:00 Hours

Max. Marks : 40

Note: Answer five questions. Question No. 1 is compulsory.
Assume suitable missing data, if any.

Q1. Answer all the following questions:

[12]

[a] Explain array of pointers with suitable example.

[b] Explain extraction and insertion operator.

[c] When scope resolution operator is used?

[d] What precautions should we take while at the time of function overloading?

[e] What do you mean by abstract class?

[f] What is type casting and when is it used?

Q2. [a] What is OOP? State advantages of OOP.

[3]

[b] Explain this pointer with suitable example.

[4]

Q3. [a] Explain Class Template with suitable example. How overloading of template functions is resolved?

[3]

[b] Write a C++ program using operator overloading to check whether given number is prime or not.

[4]

- Q4. [a] What is Copy Constructor? Describe merits and demerits of it. [3]
[b] Write a C++ program to read a file and count the no. of vowels and consonants. [4]
- Q5. [a] Write a program that catches all type of exceptions. [3]
[b] Illustrate with C++ program the execution of constructor and destructor when single inheritance is involved. [4]
- Q6. [a] When do we make a function pure virtual Function? [3]
[b] What is virtual function? Why do we need virtual Function? [4]
- Q7. [a] What are streams in C++? Explain C++'s predefined streams. [3]
[b] What are the major features of Java Programming Language? [4]