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**Paper ID [CS211]**

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MAY-08

**B. Tech. (Sem. - 3<sup>rd</sup>)**

**PROGRAMMING LANGUAGES (CS - 211)**

**Time : 03 Hours**

**Maximum Marks : 60**

**Instruction to Candidates:**

- 1) Section - A is **Compulsory**.
- 2) Attempt any **Four** questions from Section - B.
- 3) Attempt any **Two** questions from Section - C.

**Section - A**

**Q1)**

**(10 × 2 = 20)**

- a) What are derived and base classes?
- b) Differentiate between an object and a class.
- c) What are the various access levels used in declaration of classes?
- d) How many arguments are required in the definition of an overloaded unary operation?
- e) All programming languages are not OOP. Explain.
- f) What is a pointer?
- g) What is dynamic memory allocation?
- h) What is CLR?
- i) What is an application wizard?
- j) Why OLE is used?

**Section - B**

**(4 × 5 = 20)**

**Q2)** Briefly explain Pure Virtual Function overloading?

**Q3)** What is a class and its reusability?

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**P.T.O.**

**Q4)** Write a program in C++ to find the factorial of given integers using recursion.

**Q5)** Briefly explain various visual C++ windows tools.

**Q6)** How can a linked list overcome the drawbacks of an array?

**Section - C**

**(2 × 10 = 20)**

**Q7)** What is object design? Explain with help of example.

**Q8)** What are the design goals and principle feature of .NET framework?

**Q9)** Explain the basic structure of C++ program with following points:

- (a) All built in function
- (b) Data types
- (c) Special operators
- (d) Symbolic statements

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