

Roll No.

Total No. of Questions : 09]

[Total No. of Pages : 02

Paper ID [CS211]

(Please fill this Paper ID in OMR Sheet)

B.Tech. (Sem. - 3rd)

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.

(10 × 2 = 20)

Q1)

- a) What is the relationship of a class and its objects?
- b) What are derived and base classes?
- c) Define operator overloading.
- d) What is an array of object?
- e) What is .NET framework?
- f) What is a class wizard?
- g) What is CLR?
- h) Why OLE is used?
- i) What are assemblies?
- j) What is a Pure Virtual Function?

Section - B.

(4 × 5 = 20)

- Q2) Differentiate between OOP and conventional programming?

Q3) Write a note on the following:

(a) All built in function

(b) Data types

Q4) Write a C++ program to determine the area and perimeter of a triangle.

Q5) What are the advantages and disadvantages of inline functions?

Q6) What are pointer and its significance? Explain with help of example.

Section - C

(2 × 10 = 20)

Q7) Discuss the architecture of .Net framework.

Q8) (a) What is the need of using Active X Controls

(b) Given an integer N. Write a program which deletes the Nth element from a Linked List.

Q9) (a) Write five important features of OOP

(b) Write a program which adds a given item of information at the end of the list.