

Roll No.

Total No. of Questions : 09]

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B.Tech. (Sem. - 3rd)

PROGRAMMING LANGUAGES

SUBJECT CODE : CS - 211

Paper ID : [A0456]

[Note : Please fill subject code and paper ID on OMR]

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) Dynamic memory allocation.
- b) Storage classes.
- c) User defined data types.
- d) Object as a real world entity.
- e) I/O stream.
- f) OLE.
- g) Active X controls.
- h) CLR.
- i) Visual tools.
- j) Assembly of code.

Section - B

(4 × 5 = 20)

- Q2)** Differentiate structures and unions taking suitable example?
- Q3)** Using the concepts of OOP implement linklist in C++?
- Q4)** Give an overview of .Net framework citing its important in modern programming applications?

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P.T.O.

Q5) Write about windows applications with MFC.

Q6) What is managed and unmanaged code in VC++.

Section - C

(2 × 10 = 20)

Q7) How thread architecture is implemented in MFC?

Q8) Explain in detail the characteristics of object oriented programming?

Q9) What is OLE? Describe the applications of OLE ion windows programming?

