[Total No. of Questions: 8]

i)

ii)

Call by name.

Call by reference.

S.E. (Comp.) (Semester - III) (RC) Examination, Nov./Dec. - 2011 PRINCIPLES OF PROGRAMMING LANGUAGES

Duration: 3 Hours Total Marks: 100 Instructions: 1) Answer any five questions by selecting at least one question from each Module. Make suitable assumptions. **MODULE - I Q1)** a) Explain briefly the syntactic elements of a language. [6] b) Write a note on firmware Computers. [5] c) State and explain the various phases of Compiler. [9] **Q2)** a) Explain the following: [10] Information hiding. ii) Subprogram Activation. b) Draw the parse tree for the following expression [4] Y = ((v*u) + (W-X)).c) Explain the following Syntactic criteria. [6] Readability. i) ii). Writability. Ease of translation. **MODULE - II Q3)** a) Distinguish between Implicit & Explicit sequence Control. [8] b) Give the tree structure representation of the following expression [8] assuming C-precedence. $-B \pm \sqrt{B^2 - 4ac} / 2 * a$. Also give the prefix and postfix form of it. c) Discuss the following methods of transmitting parameters. [4]

Explain the following with respect to PASCAL.

Sequence Control.

Numeric data types.

b) Explain the sequence control in LISP.

Q8) a)

ii)

[6]

[12]

[8]