Code No: 07A40501

 $\mathbf{R07}$

Set No. 3

II B.Tech II Semester Regular/Supplementary Examinations, May 2010 PRINCIPLES OF PROGRAMMING LANGUAGES **Computer Science And Engineering**

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions All Questions carry equal marks ****

- 1. Write short notes on:
 - (a) Parameters.
 - (b) Procedures.
 - (c) pass by reference.
 - (d) type checking. [4+4+4+4]

2. Write short notes on:

- (a) Functions of ML.
 - (b) Haskell. [8+8]
- 3. (a) Differentiate between Unions and Enumerations
 - (b) Explain how discriminated Unions are implemented. [8+8]
- 4. (a) What is the importance of Readability?
 - (b) How Readability helps in the following concepts:
 - i. Overall Simplicity [4+6+6]
 - ii. Orthogonality.
- 5. (a) Explain the process of decorating the parse tree with attributes.
 - (b) Compute the weakest precondition for the following assignment. $a = 2 * (b - 1) - 1 \{a > 0\}$ [8+8]
- 6. (a) How can an exception handler be written in java so that it handles any exception.
 - (b) How are exceptions bound to handlers in C++. [8+8]
- 7. (a) What is the importance of monitors in concurrent pascal. Explain.
 - (b) Explain the producer consumer problem using cooperation synchronization.

[8+8]

- (a) Explain how the for structure is implemented in Ada language. 8.
 - (b) Discuss in detail about the Dijkstras Selector statement. [8+8]
