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Department of Computer Science & Engineering

Question Bank for Principles of Programming Languages

Unit I

1. Explain evolution of programming languages.
2. Describe Lexical Analysis in detail.
3. Explain context free grammar.
4. Describe recursive descent parsing.
5. Explain LR Parsing in detail.

Unit II

1. Explain Binding?Explain different possible binding times.
2. Explain Scoping? Explain different types of scoping.
3. What is an array? Explain different types of array.
4. Explain Arithmetic expressions in detail.
5. Explain record types in detail.
6. Explain pointers and references in detail.
7. Explain various control statements in detail.

Unit III

1. Explain introduction, characteristics of sub programs
2. Explain Semantics of call and return
3. Explain Stack and dynamic local variables
4. Describe Nested subprograms.
5. Describe Overloaded & generic methods
6. Illustrate Blocks with examples.

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Unit IV

1. Implementation of object oriented constructs
2. Describe Semaphores
3. Describe Threads in detail.
4. Describe Statement level concurrency
5. Describe Concurrency in detail.
6. Describe Exception handling with examples.

Unit V

1. Explain lambda calculation in detail.
2. Explain functional programming language in detail.
3. Describe programming with schema.
4. Describe programming with schema.

Unit VI

1. Explain programming with prolog language?
2. Explain multi-paradigm language in detail.

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