

Code.No: RR310505

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SET-1

**III B.TECH – I SEM EXAMINATIONS, NOVEMBER - 2010**  
**PRINCIPLES OF PROGRAMMING LANGUAGES**  
**(COMMON TO CSE, CSS)**

**Time: 3hours****Max.Marks:80**

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

- - -

1. Write about the following.
  - a) logic programming languages.
  - b) Scripting languages.
  - c) Functional programming languages. [5+5+6]
2.
  - a) How do you describe the meanings of programs using dynamic semantics.
  - b) Give an unambiguous grammar for expression. Illustrate with an example? [8+8]
3.
  - a) Explain state scope with an example?
  - b) What is the potential danger of case-sensitive names? [8+8]
4.
  - a) What is a pointer. How memory is allotted for pointers.
  - b) What is dangling reference problem. Suggest a solution for it. [8+8]
5.
  - a) Discuss how generic functions are implemented in C++ ?
  - b) Explain about user-defined overloaded operations with examples? [8+8]
6.
  - a) What is binary semaphore ? Explain counting semaphore?
  - b) Discuss the design issues for concurrency. [8+8]
7.
  - a) Explain how RDBMS and expert systems are helped using logic programming?
  - b) Explain exception handling in C++? [8+8]
8.
  - a) Distinguish between functional and imperative languages?
  - b) Write a function that computes the sum of numbers using vectors in LISP. [8+8]

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SET-2

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**PRINCIPLES OF PROGRAMMING LANGUAGES**  
**(COMMON TO CSE, CSS)**

**Time: 3hours****Max.Marks:80**

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

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1. a) Explain state scope with an example?  
b) What is the potential danger of case-sensitive names? [8+8]
2. a) What is a pointer. How memory is allotted for pointers.  
b) What is dangling reference problem. Suggest a solution for it. [8+8]
3. a) Discuss how generic functions are implemented in C++ ?  
b) Explain about user-defined overloaded operations with examples? [8+8]
4. a) What is binary semaphore ? Explain counting semaphore?  
b) Discuss the design issues for concurrency. [8+8]
5. a) Explain how RDBMS and expert systems are helped using logic programming?  
b) Explain exception handling in C++? [8+8]
6. a) Distinguish between functional and imperative languages?  
b) Write a function that computes the sum of numbers using vectors in LISP. [8+8]
7. Write about the following.  
a) logic programming languages.  
b) Scripting languages.  
c) Functional programming languages. [5+5+6]
8. a) How do you describe the meanings of programs using dynamic semantics.  
b) Give an unambiguous grammar for expression. Illustrate with an example? [8+8]

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SET-3

**III B.TECH – I SEM EXAMINATIONS, NOVEMBER - 2010**  
**PRINCIPLES OF PROGRAMMING LANGUAGES**  
**(COMMON TO CSE, CSS)**

**Time: 3hours****Max.Marks:80**

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

- - -

1. a) Discuss how generic functions are implemented in C++ ?  
b) Explain about user-defined overloaded operations with examples? [8+8]
2. a) What is binary semaphore ? Explain counting semaphore?  
b) Discuss the design issues for concurrency. [8+8]
3. a) Explain how RDBMS and expert systems are helped using logic programming?  
b) Explain exception handling in C++? [8+8]
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7. a) Explain state scope with an example?  
b) What is the potential danger of case-sensitive names? [8+8]
8. a) What is a pointer. How memory is allotted for pointers.  
b) What is dangling reference problem. Suggest a solution for it. [8+8]

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SET-4

**III B.TECH – I SEM EXAMINATIONS, NOVEMBER - 2010**  
**PRINCIPLES OF PROGRAMMING LANGUAGES**  
**(COMMON TO CSE, CSS)**

**Time: 3hours****Max.Marks:80**

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

- - -

1. a) Explain how RDBMS and expert systems are helped using logic programming?  
b) Explain exception handling in C++? [8+8]
2. a) Distinguish between functional and imperative languages?  
b) Write a function that computes the sum of numbers using vectors in LISP. [8+8]
3. Write about the following.  
a) logic programming languages.  
b) Scripting languages.  
c) Functional programming languages. [5+5+6]
4. a) How do you describe the meanings of programs using dynamic semantics.  
b) Give an unambiguous grammar for expression. Illustrate with an example? [8+8]
5. a) Explain state scope with an example?  
b) What is the potential danger of case-sensitive names? [8+8]
6. a) What is a pointer. How memory is allotted for pointers.  
b) What is dangling reference problem. Suggest a solution for it. [8+8]
7. a) Discuss how generic functions are implemented in C++ ?  
b) Explain about user-defined overloaded operations with examples? [8+8]
8. a) What is binary semaphore ? Explain counting semaphore?  
b) Discuss the design issues for concurrency. [8+8]

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