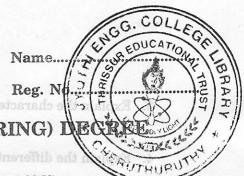
$(4 \times 10 = 40 \text{ marks})$

(Pages: 2)



FOURTH SEMESTER B.TECH. (ENGINEERING) DESCRIPTION EXAMINATION, JUNE 2011

CS 09 404/PTCS 09 403 - PROGRAMMING PARADIGMS

(2009 Admissions)

Time: Three Hours

Answer all questions.

8. Explain about the data structures and traff in PROLOG.

- 1. Mention the advantages of C programming.
- 2. What are context free grammars?
- 3. Differentiate a class and an object in C++.
- 4. List out the advantages of using type checking in functional programming.
- 5. What do you mean by a scheme in logic programming?

 $(5 \times 2 = 10 \text{ marks})$

Part B

- 1. What is meant by natural semantics?
- 2. Differentiate static memory allocation and dynamic memory allocation in C languages.
- 3. Write a program in C++ to illustrate the concept of template functions.
- 4. What are the approaches available to evaluate expressions in functional programming?
- 5. How is information hiding done in C++? Justify with an example.
- 6. Explain the liveness properties in concurrent programming.

 $(4 \times 5 = 20 \text{ marks})$

Part C

1. Explain about structured programming with an example.

Or

2. Discuss in detail about nested scope implementation in C language.

3. Explain the characteristics of object oriented programming.

CHARLE THE STORY OF CENCER STORY

- 4. Explain the different types of inheritance in C++ with appropriate examples.
- 5. Describe the elements of functional programming.

(SmoissOrhA 2008)

- 6. How is simplification of expressions for lists done? Illustrate with an example.
 - 7. Write a note on logic programming.

Answer all 70 vestions

8. Explain about the data structures and control in PROLOG.

 $(4 \times 10 = 40 \text{ marks})$

- 2. What are context free grammars?
- 3 Differentiate a class and an object in C++.
- d. List out the advantages of using type checking in functional programming.
 - 5. What do you mean by a scheme in logic programming?

 $(5 \times 2 = 10 \text{ marks})$

Part B

- L. What is meant by natural semantics?
- 9 Differentiate static memory allocation and dynamic memory allocation in C languages.
 - Write a program in C++ to illustrate the concept of template functions
- 4. What are the approaches available to evaluate expressions in functional programming?
 - K How is information hiding done in C++? Justify with an example.
 - 6. Explain the liveness properties in concurrent programming.

(4 v 5 - 20 marks)

Part C

Explain about structured programming with an example.

Discuss in detail about nested scope implementation in C language.