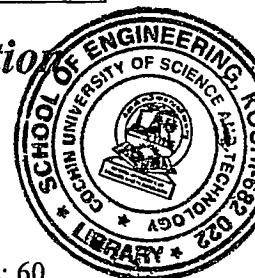


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C

B.Tech. Degree III Semester Supplementary Examination
November 2020/April 2021

CS 15-1305 PRINCIPLES OF PROGRAMMING LANGUAGES
(2015 Scheme)



Time: 3 Hours

Maximum Marks: 60

PART A
(Answer ALL questions)

(10 × 2 = 20)

- I. (a) What is ambiguous grammar?
- (b) List the benefits of learning the concepts of programming languages.
- (c) Describe the basic concept of denotational semantics.
- (d) Write short note on coroutines.
- (e) Define static binding and dynamic binding.
- (f) Write the features of small talk.
- (g) Write short notes on Lambda Calculus.
- (h) What are atoms and lists in LISP?
- (i) What are the primary design issues for names?
- (j) Write short note on exception handling.

PART B

(4 × 10 = 40)

- II. (a) Explain Backus Naur Form with example. (5)
 - (b) List the characteristics of object oriented programming. (5)
- OR**
- III. Explain in detail, the various factors affecting the evaluation of programming languages. (10)
- IV. (a) List and explain various primitive data types. (5)
 - (b) Write short notes on named constants. (5)
- OR**
- V. (a) Explain the attributes of variables. (5)
 - (b) Explain the design issues of subprograms. (5)
- VI. (a) Explain Polymorphism with suitable examples. (5)
 - (b) Explain data abstraction and encapsulation. (5)
- OR**
- VII. (a) Explain the features of object oriented programming. (5)
 - (b) Explain different types of inheritance. (5)
- VIII. (a) List the applications of logic programming. (5)
 - (b) Write notes on Horn Clause. (5)
- OR**
- IX. Describe the programming language, PROLOG and also write the deficiencies of PROLOG. (10)
