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Total Pages: 02

## BT-3/D-22

43332

## PROGRAMMING LANGUAGE Artificial Intelligence and Machine Learning EC-CS-AIML-209A

Time: Three Hours]

[Maximum Marks: 75

Note: Attempt Five questions in all, selecting at least one question from each Unit.

## Unit I

- 1. (a) Discuss various characteristics of good programming language.
  - (b) Write steps involved in implementing elementary data type with example.
- 2. (a) Define and explain the role of enumeration with suitable example.
  - (b) Write short note on attribute grammar dynamic semantic.

## Unit II

- 3. (a) Differentiate union and structure with example. 8
  - (b) Discuss different design issues for object oriented languages.

Define coercion, type error and type checking. 4. (a) Explain the usage of these with example. Differentiate overloaded subprogram and generic (b) subprogram. Unit III Discuss the design issues of subprogram and its 5. (a) operations performed on them. Elaborate, how concurrency is provided using (b) semaphores? Define parameter. Discuss various parameter 6. (a) transmission schemes. 8 (b) What do you mean by exception? Discuss various methods to handle exceptions. Unit IV 7. Differentiate stack based storage management and (a) heap storage management. 7 Compare C and C++ programming language with (b) example. 8 Differentiate procedural and non-procedural language 8. (a) with example. 8

(b)

management.

Discuss various phases in system controlled storage

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