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Total Pages: 03

BT-3/D-23

43332

PROGRAMMING LANGUAGE ES-CS-AIML-209A

Time: Three Hours]

[Maximum Marks: 75

Note: Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

Unit I

- (i) Differentiate the working of interpreter and compiler with example. List the languages having interpreter and compiler.
 - (ii) Write a short note on attribute grammar dynamic semantic.
- 2. (i) Explain the formal method of describing syntax. 7
 - (ii) Write steps involved in implementing elementary data type with example.

Unit II

3. (i) Define coercion, type error and type checking.

Explain the usage of these with example.

8

	(11)	Differentiate data hiding and encapsulation with
		suitable example. 7
4.	(i)	Define structured data type. Discuss various methods
		of implementing structured data type.
	(ii)	Differentiate overloaded subprogram and generic
		subprogram. 7
		Unit III
5.	(i)	What do you mean by Exception ? Discuss various
		methods to handle exceptions. 7
	(ii)	Discuss the design issues of subprogram and its
		operations performed on them.
6.	(i)	Discuss static and dynamic scope in shred data. 8
	(ii)	Elaborate, how is synchronization provided using
		semaphores. 7
		Unit IV
7.	(i)	Discuss various phases in system controlled storage
		management. 7
	(ii)	Compare C and C++ programming language with
		example. 8

- 8. (i) Differentiate procedural, functional and logical languages with example.
 - (ii) Distinguish static storage management and heap storage management.

