Total Pages: 2

BT-3/D-21

43205

PRINCIPLES OF PROGRAMMING LANGUAGES Paper–PC-CS-CYS - 209A

Time: Three Hours] [Maximum Marks: 75

Note: Attempt *five* questions picking at least *one* question from each unit.

UNIT-I

- 1. (a) Explain lexical and syntactical rules for describing syntax. (9)
 - (b) What is assignment? What is initialization? Explain declarations. (6)'
- 2. (a) Differentiate between compiler and interpreter. (6)
 - (b) What is type? What is type checking? Explain static and dynamic type checking. (9)

UNIT-II

- 3. (a) Discuss the concept of vectors, and arrays accessing and indexing. (8)
 - (b) Explain different capabilities of file handling. (7)
- **4.** (a) Explain the concept of abstraction, encapsulation, inheritance, and information hiding. (8)
 - (b) Describe variable size data structures with examples.

(7)

[P.T.O.

UNIT-III

5. (a) What are exceptions? What are exception handlers?

		now do they work? (8)
	(b)	What is concurrency? Compare sequence control and
		subprogram level concurrency. (7)
6.	(a)	Explain the concept of synchronization and mechanisms
		of doing it. (8)
	(b)	Describe the concept of static and dynamic scope. What
		is local data and local referencing? (7)
		UNIT-IV
7.	(a)	What is heap based storage management? (7)
	(b)	What are the OOP features of C++ programming
		language? (8)
8.	(a)	What is storage management? Differentiate between
	()	programmer and system controlled storage
		management? (8)
	(b)	What are the features of functional and of logic
		programming languages? (7)