Subject Code—2087

M.C.A. (Fifth Year) EXAMINATION

(5 Years Integrated Course)
MCA-501

PRINCIPLES OF PROGRAMMING LANGUAGE

Time: 3 Hours Maximum Marks: 100

Note: Attempt any Five questions. All questions carry equal marks.

- (a) What do you mean by data types?
 Discuss various data types.
 - (b) What is Abstraction? Discuss various types of abstraction.
- 2. (a) Define finite automata. Explain its types in detail.
 - (b) Explain the Chomsky hierarchy of formal languages. 10

(2-39-06-09)

P.T.O.

(a)	Differentiate between regular gramm	ars
	and regular expressions.	10
(b)	Explain the role of pushdown autom	ata
X#50	in the C.F.G. with example.	10
(a)	What are activation records? Disci	ISS
	various types of activation records.	10
(b)	Explain the scope rule for parame	ter
	parsing.	10
Disci	uss features of functional languages a	nd
aplic	ations of functional languages wi	ith
exam	iples.	20
What	t do you mean by object oriente	ed
langu	nages? Discuss various design issues f	or
objec	t oriented lang lages.	20
Write	short notes on the following:	
(a)	Implementation of formal logic system 1	0
(b)	Manipulation of relational database usir	18
	SQI 1	0
	(b) (a) (b) Discrepance Application of the company of the compa	and regular expressions. (b) Explain the role of pushdown autom in the C.F.G. with example. (a) What are activation records? Discrevarious types of activation records. (b) Explain the scope rule for parametersing. Discuss features of functional languages and aplications of functional languages with examples. What do you mean by object oriented languages? Discuss various design issues for object oriented languages. Write short notes on the following: (a) Implementation of formal logic system In the story of relational database using the content of the story of relational database using the content of the story of th

- 8. (a) What is Encapsulation? Discuss its various types.
 - (b) Discuss the paradigm of multiple process.