Roll No			Total No. of Pages: 2	
		MCA/M09	6253	
System Programming				
Paper : MCA-404/405				
Opt. : (ii)				
Time : Three Hours]			[Maximum Marks : 50	
Note: - Attempt any FIVE questions in all, selecting at least ONE question				
from each unit. All questions carry equal marks.				
		UNIT-I		
1.	Exp	lain evolution of System Software in de	tail. 10	
2.	2. Design and explain the flowcharts for Pass I and Pass II of the			
	assembler. 10			
3.	(a)	Write down the functions of the analysthe assembler.	is and synthesis phases of 5	
	(b)	What do you understand by system	programming? What are	
		the basic fundamental of languae prod	cessing? 5	
UNIT-II				
4.	What are macros? Explain macro expansion with the help of suitable			
	algorithm. Explain the Design of Macros pre-processor.			
5.	Explain the following with suitable examples:-			
	(a)	Explain Chomsky Hierarchy of langua	age 6	
	(b)	Binding and biding times.	. 4	
6.	(a)	Write algorithm for "Evaluation order	of Operators".	
	(b)	Differentiate between Pure and Impu	re Interpreter. 5	

Write short notes on the following:				
(a) Operator precedence Parsing	4			
(b) Regular Expression Language.	6			
UNIT-III				
What is loader? Exlain various types of loaders? Differentiate between				
loader and linkers.	10			
What are Software tools? Explain the various house-keeping task				
performed by software tools in program developmenta and application				
usages.				
(a) What do you mean by Programming environment explain its				
various components?	5			
(b) Write a short note on self relocating programs.	5			

8.

9.

10.