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	I No Total No. of Pages al No. of Questions : 09	: 2
	MCA (Sem.–4) SYSTEM SOFTWARE Subject Code: MCA-403 Paper ID: [B0117]	
Tim	e: 3 Hrs. Max. Marks:	60
1.	TEN marks each and students has to attempt any ONE question freeach SECTION. SECTION-E is COMPULSORY carrying TWENTY marks in all.	
	SECTION-A	
1.	Describe the general design procedure of a two pass assembler.	10
2.	What are Software Processors? Explain elements of Assembly Langua Programming.	age
	SECTION-B	
3.	Differentiate betweem absolute, relocating & direct linking loader.	10
4.	What are Macro Instructions and explain features of a Macro Facility.	10
	SECTION-C	
5. 5	What is Compiler ? Explain phases of the Compiler.	10
	b) What is self Relocating Program? Explain it in detail?	5
	SECTION-D	
7.	What is Processor management? Explain Scheduler and race condition	n. 10
8	Describe Paged Allocation and differentiate it with Demand Paged Allocati	on

10

SECTION-E

9. Write briefly:

- a) Explain Text Editor and its design.
- b) Explain Single Pass Assembler.
- c) What are the objectives of segmented environment?
- d) What is traffic controller in processor management?
- e) Explain Code Optimization in detail.
- f) Describe Compile and Go Loader.
- g) What is Pure and Impure Interpreter?
- h) Explain Nested Macro Calls.
- i) Elaborate structure & features of file system,
- j) Explain the design of a Macro Processor.