## Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. 2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

## Second Semester MCA Degree Examination, June/July 2017 System Software

Time: 3 hrs. Max. Marks:100

	<b>.</b>	Note: Answer any FIVE full questions.	.100
1	a.	Define system software. Differentiate between system software and application software	
	b. c.	Explain SIC/XE machine architecture. (10 Martine sequence of instructions for SIC/XE to copy "system software" from str1 to str2	Marks) Marks) 2 using Marks)
2		Explain the program block in detail. (05 N	Marks) Marks) Marks)
3		Explain the working of the algorithm of an absolute loader and give an example absolute loader. (06 N	Marks) of an Marks) Marks)
4		Write in brief: i) MS-DOS-linker	Marks) Marks)
5		With a neat diagram, explain the structure of an editor. (10 M Explain the debugging functions and capabilities of an interactive debugging system.	Marks) Marks)
	b.	Explain macro definition and expansion. (04 M Explain macro processor algorithm and data structures. (10 M Explain the following: i) Concatenation of macro-parameters	Marks) Marks) Marks) Marks)
		Explain the following:  i) MASM macro processor	Marks) Marks)
8		Explain the following:  i) Grammars  ii) Lexical analysis  iii) Syntactic analysis  iv) Code generation  (10 N	Marks)
		Write a note on the following:	riai K5)

i) Division into passes ii) Compiler-compiler (10 Marks)