T. E(I.T) sem- II/Rev systems softwar toroung systems

	Coi	(REVISED COURSE) ND-2014 (3 Hours) [Total Marks: 100	4/6/07
	N.B	3.: (1) Attempt any five questions. (2) Figures to the right indicate full marks. (3) Assume suitable data, if required.	
1	1.	(a) Explain the MASAM and SPARC assembler.(b) Explain file system and deadlock handling in UNIX.	10 10
*	2.	(a) What is the forward reference problem? How it is handled it a two-bass assembler? Explain with the help of database.	10
		(b) Explain in detail about Peterson's solution.	10
	3.	(a) State differences between macro and a subrou ne and explain when will a macro be used.(b) Explain methods used for allocating disk space or files.	10 10
	4.	(a) What is the need of linking editor in systems programming? Explain its working in brief.(b) Distinguish between compiler and interpreter. Explain overlay and binding in terms of loaders.	10 10
	5.	(a) Explain any one scheduling algo ithm.(b) Describe error identified by the different phases of compiler.	10 10
	6.	(a) Differentiate between syntax tree and parse tree. Also explain.(b) What is ambiguous grammar assuming some suitable grammar?	10 10
	7.	Write short loss on: (i) Onle optimization in compiler (ii) Deadlock avoidance and prevention in operating system (iii) Preemptive scheduling (iv) Debug monitors.	20