	Du	tration: 3hrs	
N.B. :		and the second s	
	(2) Question No 1 is Compulsory. (Max Marks. 50) (Max Marks. 50)	
	(3	All questions out of the remaining five.	
	(4	Assume suitable data if an income suitable data is an income suitable data if an income suitable data is an income suitable data inc	
Q. 1		Assume suitable data, if required and state it clearly.	
Q. I		Attempt any FOUR	[20]
	a	Explain Goals and objectives of OS	[5]
	b	Differentiate between Preemptive and Non-preemptive scheduling algorithms	[5]
	c	Explain Resource Allocation Graph with an example	[5]
	d	Management Requirements	[5]
	e	Discuss File access methods	[5]
Q. 2	a	Discuss Producer and Consumer problem with solution using Semaphore	[10]
	b	Explain different structures of Operating System	[10]
Q. 3	a	What is the role of PCB? Explain the structure of PCB with its	[10]
	L	disadvantages.	[10]
	b	Explain Deadlock Avoidance algorithms with example.	[,
Q. 4	a	Explain Page Replacement Strategies with suitable examples	[10]
	b	Discuss in detail about Disk Scheduling Algorithms with an examples	[10]
Q. 5	a	Explain Memory Allocation Strategies with suitable examples	[10]
Q. 5	b	Explain Five state Process model with two suspended states	[10]
	U	Explain The state Hooess model with the suspense	
Q. 6		Write short notes on Following	[20]
	0	Concept of Multithreading	[5]
	a b	Principles of Concurrency	[5]
	c	TLB	[5]
	d	File Directories	[5]