## M.C.A. Semester:- 3 Examination

Paper Code: 3606 Operating System Principals			
Tin	ne: 02	:30 Hours Marks	s: 70
$\mathbf{Q}_{1}$	l	Answer any FIVE from the following:	[10]
	a.	What are the types of operating system?	
	b.	Define user and kernel thread.	
	c.	What is logical and physical address?	
	d.	Define: CPU Bound.	
	e.	What do you mean by process?	
	f.	What is bit vector?	
	g.	Give advantages and disadvantages of priority CPU scheduling algorithm	
Q2	2	Answer any FIVE from the following:	[15]
	a.	Define file access methods	
	b.	Explain the criteria for deadlock arise?	
	c.	List out CPU scheduling criteria.	
	d.	Explain free space management	
	e.	What is swapping?	
	f.	What are the advantages and disadvantages of contiguous memory allocation?	
	g.	Explain multiprocessing.	
Q3		Answer any FIVE from the following:	[25]
	a.	What do you mean by segmentation?	
	b.	Write a note on Process Control Block.	
	c.	What is paging? What are the advantages of it?	
	d.	Explain SJF CPU scheduling algorithm with example.	
	e.	Discuss real time system with its advantages and disadvantages.	
	f.	Explain FIFO disk scheduling algorithm with proper example.	
	g.	Why page replacement is required?	
Q4		Answer any TWO from the following:	[20]
	a.	What do you mean by virtual memory? Explain virtual memory allocation with example.	
	b.	Write and explain bankers algorithm.	
	C.	Discuss various file access methods	