## **END TERM EXAMINATION**

## **SECOND SEMESTER [MCA] MAY – JUNE 2013**

Paper Code: MCA-106(New) Time : 3 Hours			Subject: Operating Systems Maximum Marks:60	
	Q. 1 is	compulsory.		
Q1.	Answer all the following	g questions briefly:	(10X2)	
	(a) What about virtual device	?		
	(b) Explain evolution of Comp	uter ?		
	(c) Define CISC & RISC process	sor?		
	(d) What is a time sharing par	allel ?		
	(e) Describe the Process sched	duling ?		
	(f) What is a real-time system	s ?		
	(g) What is Cooperating Proce	esses ?		
	(h) What is the function of sto	rage device ?		
	(i) List the different layers of	Networking ?		
	(j) Explain Algorithms Evaluat	ion ?		
		UNIT-I		
Q2.			(5X2=10)	
	(a) What is an operating syste	m structure ? Explair	n the different Components of	
	operating system with merits and demerits.			
	(b) What is a Critical – Section solution for improvement.	•	fects the System. System the	
Q3.	Write short notes on the following:			
	(a) Page – replacement	(3)		
	(b) Segmentation	(3)		
	(c) Thrashing	(4)		

Q4.	(10)
	(a) Define the Device Management. Explain various Techniques for device management.
	(b) What is Swap-Space Management? How it effects Device System?
Q5.	Write short notes on the following:
	<ul><li>(a) Disk Reliabilty</li><li>(b) Buffering</li><li>(c) Block Multiplexing</li></ul>
	UNIT-III
06	(10)
Q6.	(10)
	(a) Explain the Linux Operating System. Differentiate with Windows Operating System.
	(b) What is the Cryptography? Discuss its functionality in details.
Q7.	Explain in short:
	<ul><li>(a) System threats</li><li>(b) Goals of protection</li></ul>
	(c) Directory Implementation
	UNIT-VI
Q8.	(10)
	<ul><li>(a) Write about the file system structures. What is a basic file system?</li><li>(b) Describe the security problem for the system? How to protect our system from the security risk?</li></ul>
Q9.	Write short notes on the following:
	(a) Multi programming
	(b) Semaphores
	(c) Message passing
	(d) Demand paging
	(e) Multiple Paths