END TERM EXAMINATION

SECOND SEMESTER [MCA] MAY 2017

Paper	Code: MCA-106	Subject: Operating Systems
	3 Hours	Maximum Marks: 75
No	te: Attempt all questions as directed.	Internal choice is indicted.
Q1	Answer the following: (a) What is distributed O.S? (b) What is multi processor scheduling. (c) Mention the main features of Linux Ope (d) Mention any two differences between sh (e) Name various file allocation methods. (f) Compare program threats and system to (g) How does many-to-one thread mode Explain. (h) What is Multilevel Feedback Queue Sch (i) What is segmentation and paging. (j) What is the benefit of cryptography in (hreats. el differ from one-to-on model? deduling.
	Unit-I	
-02	Define job queue, ready queue and de process scheduling. (b) Explain various criteria considered Explain the following methods: (i) Shortest Job First Scheduling (ii) Round Robin Scheduling	(5)
	Unit-II	
Q3/	(a) Define semaphores. Explain the role of in semaphores.(b) Mention the characteristics of a dedeadlock recovery techniques.	(6)
Q4	(a) Explain any two page replacement alg (b) Explain the process of logical to segmentation with paging system. Giv	physical address translation in
	Unit-III	
Q5	(a) Explain the following disk scheduling (i) SSTF	algorithms: (6.5)
	(ii) C-SCAN (b) Explain the following features of device allocation methods (b) Buffering and block multiplexing	ces management: (6)
	Unit-IV	
f	Explain any two of the following: (a) Two-Level Directory structure (b) Intrusion Detection (c) Free space management in Linux	(6.25x2=12.5