DISTANCE EDUCATION

B.C.A. DEGREE EXAMINATION, DECEMBER 2009.

PRINCIPLES OF OPERATING SYSTEMS

(2003 onwards)

(2005 onwards)		
Time: Three hours	Maximum: 100 marks	
Answer any FIVE questions.		
All questions carry equal marks.		
	$(5 \times 20 = 100)$	
1. (a) Define operating system. Give	the types of OS. (4)	
(b) Briefly explain about system ca	alls and the operating system structure.	(16)
2. (a) What is interprocess comp	munication? Discuss. (10)	
(b) Explain any two process scheduling methods with example. (10)		
3. (a) Write short notes on sema	aphores. (6)	
(b) What are device controllers? Di	iscuss. (14)	
4. (a) Describe about interrupt	handlers. (10)	
(b) What are the goals of I/O softw	are? (10)	
5. (a) Discuss the concept of deadlock detection and prevention.		(14)
(b) Write short notes on paging. (6)		
6. (a) Illustrate on multiprogram	mming without swapping or paging.	(10)
(b) Explain the concept of swappin	g. (10)	
7. (a) Briefly discuss about linked lists and Buddy systems with example. (14)		
(b) Explain any one page replacem	ent algorithm. (6)	
8. (a) Write a detailed note on disk space management. (10)		
(b) Illustrate on file system reliability and performance.		