Roll No.

Total Pages: 3

BCA/M-21

1900

OPERATING SYSTEM-II

Paper-BCA-362

Time Allowed: 3 Hours] [Maximum Marks: 80

Note: Attempt five questions in all, selecting one question from each Unit. Question No. 1 is compulsory. All questions carry equal marks.

Compulsory Question

- 1. Write short notes on the following: 16
 - (a) What is Critical section?
 - (b) What is Mutual exclusion?
 - (c) What is difference between Deadlock and Starvation?
 - (d) What is Tree structure?
 - (e) What is Remote File Transfer?
 - (f) What are different types of Files in Linux?
 - (g) Define Disk scheduling.
 - (h) What are various File attributes?

1900/K/199 P. T. O.

UNIT-I

2.	(a)	What is the Semaphore ? Explain its types and implementation. 8								
	(b)	Explain Single level and Two level Directory structure.								
3.	Wri	Write short notes on the following:								
	(a)	The Reader Writer Problem. 8								
	(b)	The Dining Philosophers Problem. 8								
UNIT-II										
4.	Wha	at is Disk structure? Explain FCFS, SSTF, SCAN,								
	C-S	CAN, LOOK disk scheduling algorithms. 16								
5.	Wri	te short notes on the following:								
	(a)	Remote File Transfer. 8								
	(b)	Process Migration. 8								
UNIT-III										
6.	(a)	Explain the comparison of Linux with other								
		Operating systems. 8								
	(b)	Explain the architecture of Linux operating system.								

7.	Exp	lain the	purpose,	synta	x and	examples	of	the
	follo	owing cor	mmands :					
	(i)	clear		(ii)	dir			
	(iii)	mv		(iv)	mkdir			
	(v)	rm		(vi)	cat			
	(vii)	passwd	((viii)	cal			16
			UN	IT-IV	7			
8.	(a)	Describe	various	File s	ystem	componen	ts.	8
	(b)	Explain	various t	ypes (of File	system.		8
9.	(a)	Describe	vi editor	and	its con	nmands.		8
	(b)	Explain	the vario	us job	contr	ol comman	ıds.	8