Roll No.

Total Pages : 03

BCA/M-20 1900 OPERATING SYSTEM-II BCA-362

Time : Three Hours]

[Maximum Marks : 80

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory.

Compulsory Question

1. (a) Define Concurrency.

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- (b) Define Seek Time and Access Time.
- (c) Explain disk structure.
- (d) What are different types of semaphores ?
- (e) What is Remote Login ?
- (f) What is Linux Shell ?
- (g) What are different types of commands in linux ?
- (h) What are differences between Linux and Windows?

Unit I

 What is Critical Section problem ? Discuss single and two-process solution.

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Write	short notes on the following :	
(i)	Deadlock and Starvation	
(ii)	The Bounded buffer problem.	16
	(i)	Write short notes on the following :(i) Deadlock and Starvation(ii) The Bounded buffer problem.

Unit II

4.	Expla	ain various Disk Scheduling algorithms. 16
5.	Write	e short notes on the following :
	(i)	Network Operating System
	(ii)	Distributed Operating System. 16
		Unit III
6.	(a)	Write are advantages and disadvantages of Linux
		Operating System ? 8
	(b)	Explain Linux Architecture and its features. 8
7.	Expla	ain the purpose, syntax and examples of the following
	comr	nands : 16
	(i)	cat (ii) cp
	(iii)	cal (iv) mv
	(v)	cd (vi) rm
	(vii)	mkdir (viii) dir

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Unit IV

8.	(a)	Explain the features of Linux file system.	8
	(b)	Explain the various types of files in linux.	8
9.	(a)	What is an editor ? Explain various modes	of vi
		editor.	8
	(b)	What are the components of file system ?	8



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