

## MCA (Revised)

## **Term-End Examination**

## December, 2007

## MCS-022 : OPERATING SYSTEM CONCEPTS AND NETWORKING MANAGEMENT

Time: 3 hours	Maximum Marks : 100
Note: Question number 1 is continued three questions from the	
1. (a) Explain the characteristics Systems.	of the Modern Operating
(b) Explain the basic purp connecting devices in comp	
(i) Repeaters	
(ii) Hubs	
(iii) Bridges	
(iv) Routers	
(v) Gateways	
(c) Describe the layering str protocol suite.	ucture of the TCP/IP
	ipt that accepts an arbitrarily s arguments and replaces all 5



	(e)	Explain the responsibilities of User and Kernel modes of WINDOWS 2000 system.	5
2.	(a)	Explain the following with reference to WINDOWS 2000:	12
		(i) Distributes file system	
		(ii) File Replication service	
		(iii) FAT16 and FAT32	
	(b)	Explain the usage of the following for authenticating a user :	8
		(i) Hardware token	
		(ii) Software token	
3.	(a)	Describe the file system in LINUX.	7
	(b)	Explain Trivial File Transfer Protocol (TFTP) and mention where it can be used.	6
	(c)	Discuss the page replacement algorithm used by LINUX.	7
4.	(a)	Discuss the mesh topology and list its advantages and disadvantages.	7
	(b)	Explain the role of NAME SERVERS and RESOLVERS in DNS Architecture.	7



**5**.

(c)	Men	tion	the u	sage	of t	ne fo	llowing	LIN	UX	
	com	mands	, with	an exa	ample	for eac	ch:			6
	(i)	cat	1 1 2 2 2 2 3 3 4 3 4 4 4 4 4 4 4 4 4 4 4 4	•						
	(ii)	cmp								
	(iii)	diff								
	(iv)	wc								
	(v)	sort					•			•
	(vi)	chmo	d							
Desc	ribe	the fol	lowing	and a	lso exp	olain th	neir usa	ge :	4×5	=20
(i)	Vi E	ditor								
(ii)	Map	ped D	rive in	WIND	OWS	2000				
(iii)	Virte		vate Ne	etwork	remo	te acce	ess in V	VINDC	)WS	
(iv)	IPS	ec				*				