## M.Tech. 3rd Semester (Computer Sci. Engg.) Examination, December-2017 SYSTEM AND NETWORK ADMINISTRATION Paper-MTCE-705-A

Time allowed: 3 hours ] [Maximum marks: 100						
Noi	Note: Attempt any five questions in all. All questions carry equal marks.					
1.	(a)	Explain TCP/IP model.	10			
	(b)	Briefly explain the network related comman	ds:			
		(i) traceroute (ii) ipconfig (iii) netstat (iv) p	ing. 10			
2.	(a)	Explain the process of proxy server in detail	. 10			
	(b)	(i) What is subnetting? Explain with an exar	mple. 5			
		(ii) What is the first valid host on the subnet that the node 172.31.252.252/23 bel to?				
3,	(a)	What is Public key cryptography? Explain public key algorithm RSA in detail.	n the			
	(b)	What is cipher? Explain substitution ciphe	r and			
		transposition briefly.	10			
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4.	Br	iefly explain the following:	20	
	(a)		<b></b>	
	(b)	Access control list		
	(c)	Digital signatures.		
5.	(a)	What are the necessary issues to be tack management?	led in host 10	
	(b)	solution are steps for the meta		
		Linux.	10	
6.	Write a short note on:			
	(a)	Shadow passwords	20	
	<b>(b)</b>	User accounts		
	(c)	Booting process of Windows		
	(d)	Group accounts.		
7.	(a)	Discuss about AWK with example.	10	
	<b>(b)</b>	Write a shell script to find the factorial or	f a given	
		number.	10	
<b>8.</b>	Writ	Write a short note on:		
	(a)	Shell scripting	20	
	(b)	Peri		
	(c)	Syntax of Creating, renaming and directory commands in UNIX with examp	eleting ble.	
120	<b>7</b> /			