



Försättsblad tentamen / Examination cover



Ano	nym	itets	kod	/ An	onyn	nous	cod	le	_	_												
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Kurs	skod	/ Co	ourse	e cod	de		P	rov	kod/	Tes	st co	de	Ten	tame	ensd	atun	n/E	xam	inatio	on d	ate	
D	T	0	6	6	Α			Т	1	0	1		2	0	2	3	-	0	8	-	2	5
Kursnamn / Course name Datateknik AV, TCP/IP-nät																						
Prov		nn / · mer		nam	ne																	

Skriv din anonymitetskod på varje inlämnat papper Write your anonymous code on each sheet submitted

Sätt ett kryss (x) för varje inlämnad uppgift Use an x to indicate which questions has been submitted

Casio fx-9750GIL

Markera nedan med X / Mark below with an X		Poäng / Credit	Lärarens anteckningar / Teacher's notes	Markera nedan med X / Mark below with an X	Poäng / Credit	Lärarens anteckningar / Teacher's notes
1	X	2.5		16		
2	X	3		17		
3	X	1.5		18		
4	X	2		19		
5	X	1		20		
6	X	7		21		
7	X	2		22		
8	X	2		23		
9	X	0		24		
10				25		
11				26		
12				27		
13				28		
14				29		
15				30		
Poäng Points	summa /	6	Betyg / Grade	Lärarsign./ Teachers sign		

Fylls i av tentamensvakt / To be filled in by the invigilator

Antal lösa blad/ No. of sheets submitted

Inlämnad tentamen / Submitted exam

Leg kontroll / Control identification

Sign. tentamensvakt / Sign. invigilator



Försättsbladet skall alltid lämnas in även om ingen uppgift behandlats Examination cover should always be submitted even if no questions are answered



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1	· Wireless uses 802.11 Standard. (?)	Lärarens anteckni Teachers note:
aj	· WITCHESS links has lower range.	2,5
	· wireless are more likely to	
	corruption due te noice.	
6)	The hidden node problem means	
	that nodes signals can't sense	
	ench other.	
	To eliminate the Problem, CSMA/KA	1
	is used.	



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$\left(\gamma \right)$			Lärarens anteckning / Teachers note:
9	۵)	The purpose of handotts is	
		to de-load the base station	
		or if the signal strength	
		to the devec is to weak.	
	6)	the difference is that	
		46 and 56 can Send both	
		voice and data the same	
		way. They also have lower	
		latercy and deliver faster	
		speeds.	



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3	centralized routing algorithmi	Teachers note:
	direct routing. It takes a	
	direct puth to route a	
	device to a network.	
	Decentralized routing algorithm:	
	indirect routing. It takes an	
	indirect path to route a	
	device to a network. mening	j
	that it connects to one	
	network through another one.	
b)		



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(3)		Lärarens anteckning / Teachers note:
(4)	It is when packets gets	
	105t somewere in transit.	
	This happons for example because	
	Packets gets corrupted.	
	Sene bechniques used arc	
	TCP tahoc, rand or vegas.	
	TCP Tanec: slow start, multiplicative	
	increase, fast re-transmit	
	TCP Renal Same as bruce bub	
	tost Start.	
	Slow Start: Gradually increase	
	data transmission to avoid	
	network floading.	
	fast Start: divide winder 5:20	
	by 2 when duplicate acts occurs.	
	mutiplicative increase: Double window	
	5:20 utill dupliente acks occurrs.	
	fast re-transmit: Quickly addiesses	
	Vacuet 1055 by retransmitting	
	Packets.	



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							Lärarens anteckning /
(5)	NAT	toan	state.	5 5	ourse	IP-header	Teachers note:
	69 a	prin	lvr	115	and	arbritraily	
	choses	5 4	Pa	rt n	umber.	By doing	
	this,	it 1	Raov	<i>r</i> 5	Wher	e to send	
	Packe	+ ~		114	neth	vart.	
	TOUND	03		113			



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6)				a server, send traffic	
				the traffi	
	and co	NS 15 5 0	e forwa	rding tribbes	
			CONGRO	1 Plane	
		門)	data	Planc	
			4		



4	Anonymit	etskod/	Anonym	us code	2:			
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		Lärarens anteckning /
7)	to the coston as by 13 parallel	Teachers note:
y ay	Fast retransmit is employed.	
	is quickly madrosses packet	
	1055 by resending paux ets.	
1		
	Packet loss means that	
	some prekets dan't reach its	
	destination, so some content is	
	missing.	
b)	multiplicative increase is used.	
7		
	it doubles the window size unbil	
	Euphoate news pourris. When	
	duflicate acks occurrs, then	
	the system reeds barrecover	
	and get back to maximum.	
	Window size.	
G	It can take speed down to zero.	
1		
<u> </u>		



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(8)	ALTEC. CONNECTS to- Bols	Lärarens anteckning / Teachers note:
0	home network, which is	2
	connected to the wide	
	area network. Beb's visiting	
	network is also connected	
	to the wide area network,	
	meaning that alive is undirectly	
	courted to communicate with	
	B96.	



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9		Lärarens anteckning / Teachers note:
9	λ = 15 instances yer hour	
	Little's Law: L= A.W => W=.L/A	
	W = 10/60 = 0.167	