## CHALMERS EXAMINATION/TENTAMEN

Course code/kurskod	Course name/kursnamn			(00)
EDA 387	Computer Networks			
Anonymous code Anonym kod	· · · · · · · · · · · · · · · · · · ·	Examination date Tentamensdatum	Number of pages Antal blad	Grade Betyg
EDA 387-13		2014-10-31	12	5

Solved task Behandlade No/nr	uppgifter	Points per task Poäng på uppgiften	Observe: Areas with bold contour are to completed by the teacher.  Anmärkning: Rutor inom bred kontur ifylles av lärare.
1	X		
2	×	Constant Con	
3	<	7	
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5	Χ	9,5	
6	X	6	
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9	χ	6	
10	X	8	
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Total exam points Summa po på tentame	äng	68	h)

Points for question (to be filled in by teacher); Poäng på uppgiften -(Hylles av larane)

Consecutive page no. Löpande sid nr

Anonym kod

EDA 387-73

to anfigure the interface address.

Question no. Uppgift nr 3

Question 3

Router Discovery! 30) the 186 Neighbor Discovery Protocol (is used for outoconfiguration on system startup. It haves it postible for a hope to find its neighbors in the local network and older ine their physical addresses. Additionally, the node can test whether a specific neighbor is still reachable or not Another Wing is that with NDP, (a noble kan discover the routers in the local network, along with physical addresses and information like to MIN SIZE OF the notwork prefix, which can be used

36) to Neighbor Discovery, two messages are used; Neighbor Solicitation and weighter Advertise mant. Both messages are ICMPV6 messages that are encopsulated in IPV6 partets, which are proportioned in thorner partets A node A that wants to wasternanthernalist adapted the physical address of a noce is in the same althoris sends a Neighbor solicitation message. Howeverwarker The NOITHER Solicitation message will be addressed like the following: The source address of the IPVG patent is node A's unicast address, the see destination address of the 1R16 packed is node 3's solicitathed address. The source address of the Evernes passed is node A's MAC address, the destination address of the ethanel frame is the multicoust MAC address

33-33-FF-xx-xx, where xx-xx-xx corresponds to the lowest

Answer only one question on this page. Do not write on the back of this paper Behandla endast en unngift på detta blad. Skriv ei på baksidan

local network to the nowher.

to a node outside the

= min { leader [[] | PLENCI)!

Answer only one question on this page. Do not write on the back of this paper Rebandla endast en uppdift på detta blad. Skriv ei på baksidan

Since requirement 3) is true, it holds that

and requirements to and to ours fulfilled.

candidate - min 1D in the system and distance - the distance of Pi to the processor with min 1D this is especially true if 1D(i) is minimal in the system, because in this case, candidate and distance are left unmodified.

Afterwards, = candidate, distance > is with to < leader; disi>

CHALMER	Anonymous code  Anonym kod  EDA 337 - 73	Points for question (to be filled in by leacher) Poäng på uppgiften httylles av Rearre)	Consecutive page no. Löpande sid nr 10 Cuestion no. Uppgift nr
Question  9a) (1	g ) adjust ) agrees ) each processor ) worked correctly		
60	fter the first step, P is not is is be cause in line 4) read processor athor is a count [P] = P. count [D] or all ferwards, it holds for which	Pinchereuts not befund P  (P. count I a);	its count [P] www mod 3
9	count [P] +1 = P. count[Q]  MALALING Q. count [P] = P.  is not belied only processor.  In ce P consequently belongs to  not en pty.	countal mod	
	question on this page. Do not write on the back of		

Consecutive page no.

Points for question

Anonymous code

CHALMERS Anonymous code	Points for question (to be filled in by teacher)	Consecutive page no. Löpande sid nr 12
Anonym kod EDA 387 −73	Poäng på uppgiften (lilyllos av littere)	Question no. Uppgift nr 10
EDA 301 13		
Question 10		
10c) In class we saw a superstabiliting,	algorithm with 3	hata conversence
Or forever $S = \emptyset$		
For m!= 1 to 8 do  Lrm 1 - read (rm)  A Colors: = A Colors U (lrm) col  1f ID (m) > i then G Colors: =	lor } GColors U Sirm. (	color?
od color; = 1 or color; E G Color  color; = croose (NAColors)  color; color = color;		
Considering the example given in extense is only one cycle when using the first cycle, processor non a from 0 and 1. Afterwards, there	ercise 10b), to	te conversace algority : or different
all the scale countries		
Note that it is always possible to f from all colors used in the neighbore D to tolors available.	anning hodes sin	1 ce that