Networks HW 4

R14

IP: 192.168.1.17
Subnet mask: 255.255.255.0
Default Router: 192.168.1.254
local DNS server: 192.168.1.2

R15

- An IP diagram sent from source to dest. host will travel over 8 intefaces
- 3 forwarding tables will be indexed to move the datagram from source to destination

R16

Suppose app generates 40 bytes every 20 ms- each chunk gets encapsulated in a TCP segment & then IP datagram
So, TCP segments are 20 bytes each
Asume 40 added to each chunk = 2x40 = 80 bytes Total
So 50% will be app data

R18

wireless Router usually includes DHCP server.
DHCP used to assign IP addr to S PC's & to router interface. Yes wireless also uses NAT to obtain only 1 IP addr from ISP

P27

a)

Num	N'	D(w), p(w)	D(v), p(v)	D(w), p(w)	D(x), p(x)	D(y), p(y)	D(z)
0	t	2, t	4, t	∞	∞	7 t	∞
1	tu	2, t	4, t	5 u	∞	7 t	∞
2	tuv	2, t	4, t	5 u	7 v	7 t	∞
3	tuvw	2, t	4, t	5 u	7 v	7 t	∞
4	tuvwx	2, t	4, t	5 u	7 v	7 t	15 x
5	tuvwxy	2, t	4, t	5 u	7 v	7 t	15 x
6	tuvwxyz	2, t	4, t	5 u	7 v	7 t	15 x

b)

0	u	2 u	3 w	3 u	∞	∞	∞
1		2 u			∞	9, t	∞
2		2 u			6 v		∞
3		2 u					14 x
4		2 u					14 x
5		2 u					14 x
6		2 u					

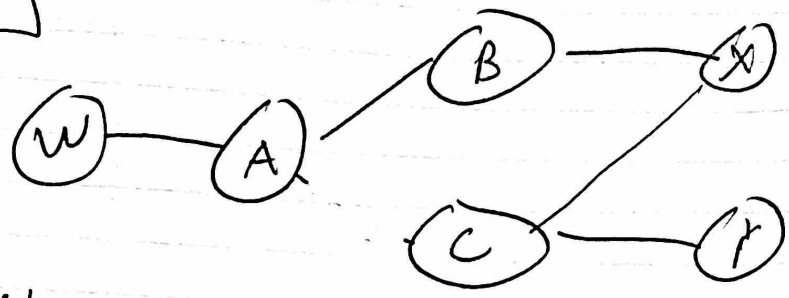
c)

0	v	4 v	3 v	4 v	3 v	8 v	∞
1							11 x
2							
3							
4							
5							
6							

d)

0	w	-	3 w	4 w	6 w	∞	∞
1		5 u				∞	∞
2						12 v	∞
3							14 x
4							14 x
5							14 x
6							

P40



No connection btwn A and C so syst X has no knowlage of AC link. The dest. path has no data about the paths AS A→A S C