SEGA

SWITCH

Given the Gollwing network where

- · Elh speed LOOMbps (SEG-X)
- · Routers have 4 interfaces (RX) (may be int unconfigured)

· Bridges one BridgeX

- · Servers are marked with letters
- . The center switch switch has 8 ports
- a) With no VLANS, compute
 - i) The number of collision domains
 - ii) The number of broadcast domains
- b) We define the port-bused KANS:

. VLAN 1: 2, 3,4,5

·VLAN 2:6,7,8,1

Compute

i) The number of collision domains

ii) The number of broadcast domains

iii) If all broadcast domains shall be connected via smitch, what connection is needed?

SEG-L

Bridge 1

SEG - F

a) i) [13 collision domains broadcast domains

ii 15 broadcast domains

iii) Free ports: Ry R12, R14, R24, Swa

Sw1 E VLAN 2 -> Connect TSWa- R24 RLE VLANZ RZE VLANA