Networks Sub-module Assignment

Answers for Part 2

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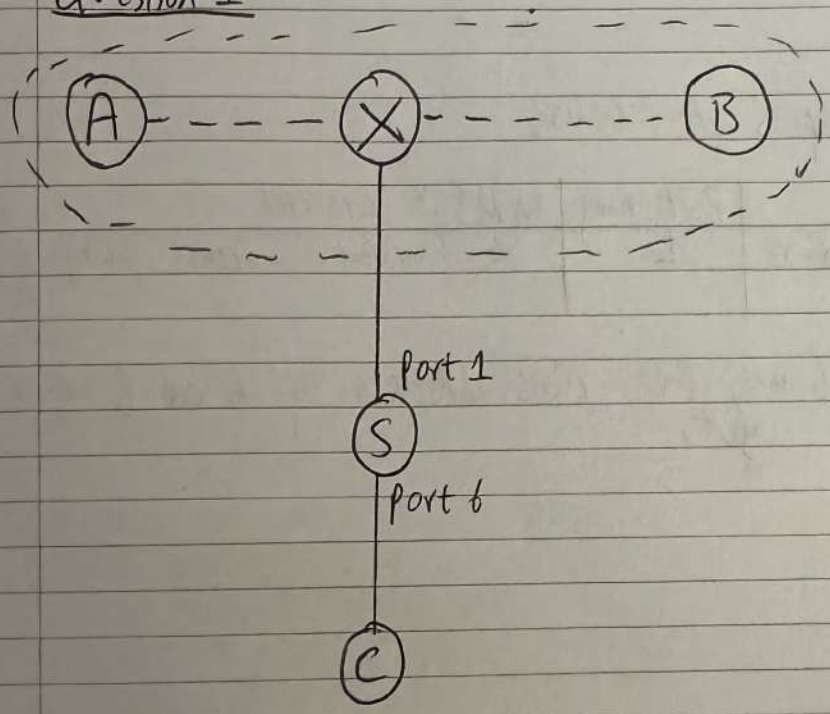
Question 1



Question 2

Devices inside the range of C can recieve transmitted pannels. Since A and B can hear X, and X is ~~connec~~ connected to C, then both A and B are both within coverage of C. Thus both A and B can.

Question 3

- At what time does A start sending its frame?

Completion time of C (50 μs) + Backoff time of A (10 μs) + DIFS (5 μs)
= 50 μs + 10 μs + 5 μs = 65 μs

Question 3 (continued)

- At what time does B start sending its frame to X?

B's frame availability (40μs) + Backoff time of B (12μs) + DIFS (5μs)

= 40μs + 12μs + 5μs = 57μs

Question 4

Switching table of S at 60μs:

MAC addr	Port num	What's it connected to?
XX-XX-XX-XX-XX-XX	1	X (wireless access point)

At 60μs, the MAC addresses of A and B aren't here yet.

Question 5

If I connect to a computer on port 2 of S, then I can receive frames forwarded from devices connected to either points of the switch. Unless S is the destination, it won't receive frames that are transmitted between X, A and B.