



IoT #3

4 plays • 48 players

 A public kahoot

Questions (13)

1 - Quiz

What's a handoff?

20 sec



a transport layer protocol



a low-power wireless technique



the process that allows a mobile phone to move from cell to cell



2 - Quiz

Link A-B has an RSSI of -90 dBm. Link A-C has an RSSI of -80 dBm. What can you say for sure?

20 sec



A-B is about 10 times ^{weaker}  than A-C



A and B are farther apart than A and C



B and C cannot communicate



A and B will get disconnected soon



3 - Quiz

20 sec

What's the ratio between a RSSI of -20 dBm and an RSSI of -80 dBm?



4



40



1000000



60



4 - Quiz

20 sec

What's the goal of multiple access schemes?



avoiding packet loss



avoiding interference



avoiding collisions



5 - Quiz

20 sec

Which of the following is not a multiple access scheme?



CSMA



TDMA



CDMA



FDMA



6 - Quiz

20 sec

Why don't we use CSMA in cellular networks?

cellular networks are low-end networks



cellular networks are immune to interference



cellular networks are centrally managed



7 - Quiz

20 sec

How can CSMA/CA be summarized?

act before you listen



talk before you listen



listen before you talk



8 - Quiz

20 sec

How do we express 1 mW in dBm?

1 dBm



0 dBm



-10 dBm



9 - Quiz

20 sec

Can I build a radio with a sensitivity of -200 dBm?

no, because it would be too expensive



no, because you can't beat thermal noise



yes, using error control coding



10 - Quiz

20 sec

A common MAC solution in the IoT is...

CSMA



TDMA



CDMA



YMCA



11 - Quiz

20 sec

Path loss is caused by...

distance



interference



obstacles



12 - Quiz

20 sec

Fading is caused by...

interference



reflections



duty-cycling



benevolent aliens



13 - Quiz

20 sec

Where is fading most critical?

indoors



outdoors



upstairs



downstairs

