

Question2: (a)

Subject: Mohammadali Rahnama 19061006

Q2 (a):

A and C

both want to

send data to B and because they can't hear each other they will send the data at the same time and a collision would happen.

MACA use a CTS and after that B receives a RTS from A it will send back a CTS and C will hear this CTS and stop transmitting

and Backs off

ii in MACA when node C ~~hears~~ hears a

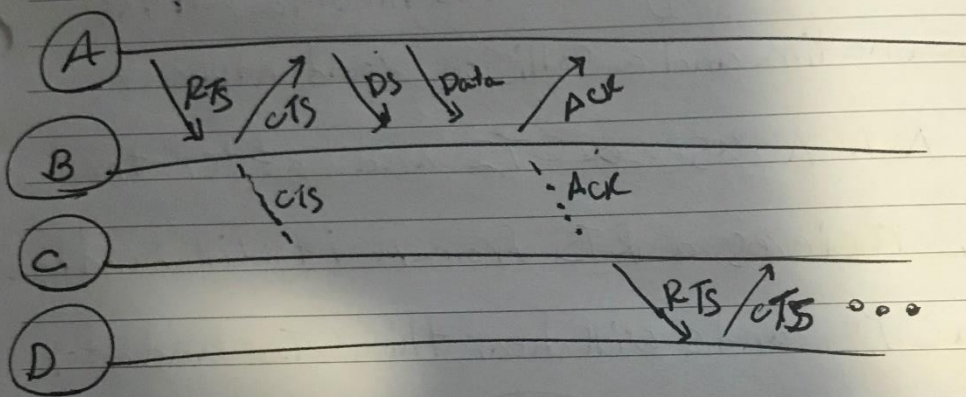
CTS it will never know how long it has to

back off so it will back off for a really

long time to make sure there will be no collision

Question2: (a cont. + b)

because in MACAW we are using ACK
now node C will now exactly when
it can send it's data to D



(b) 5G has Data Bandwidth of 1 Gbps or higher, it has Dynamic information access, Available at low cost, Finest QoS so far / support all of the broadband service including multimedia, voice, video stream and Internet

or cloud)

Question2: (b cont. + c)

Subject

Date

Sa Su Mo Tu We Th Fr

5G technology ~~is~~ will be a new revolution in wireless systems market, it will be user centric, the next frontier of innovation for entire mobile, it will change the world

③ ~~Thing~~ Identification: a Thing in the Internet of things has to first identify itself and know what features (Sensor) it has. For example a recording device would know that it's a recording device and it has several sensors (e.g. camera..)

Sensing, the our Thing has to start gathering the data using the sensors and send it back to the Base station (warehouse database or cloud)

Question2: (c cont.)

Communication: a thing in order to communicate would have different communication devices for example a bluetooth or wifi antenna or a cellular network antenna.

Computation: in an IOT after that we have gathered the data now we have to process it for human's we use our brain but for our ~~things~~ things they will have access to a processor, microcontroller, FPGA etc. or maybe use cloud computing services

Services: IOT has various services such as: smart school, smart home, smart industry, smart transportation, smart building