

Tutorial Questions - ICT 9025

Tutorial 01 – 3G, WAP, 4G

1. Explain how CDMA2000 has better spectral efficiency than WCDMA
2. What is the difference between 3GPP and 3GPP2
3. Give two differences between a BTS and a Node-B
4. What is WCDMA, additionally explain 3 components of WCDMA
5. Regarding WCDMA, explain the difference between TDD and FDD, include a diagram to represent TDD and FDD.
6. Suppose a CDMA Base Station has the chip sequence 11101
Give the code that would be transmitted to represent the data 1010.
7. Give two frequency bands that CDMA2000 uses which WCDMA does not use
8. Regarding the Wireless Application Protocol (WAP)
 - What is the function of WAP
 - Explain why modern phones do not use WAP
9. Give two differences between WAP 2.0 and iMode
10. Regarding LTE, explain why LTE uses both OFDMA and SC-FDMA access methods