

## Questions for TLT-2656, 11.5.2009

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No calculators!

Please, answer in the order of questions!

1. What is the main purpose of IEEE 802.11n?
2. Which IEEE standard specifies wireless mesh networking?
3. What is the concept of mesh networking?
4. What is the concept of pervasive networking?
5. What is the concept of OFDM?
6. Name few applications of OFDM.
7. What is the purpose of wireless HD?
8. What is the difference between SISO and MIMO?
9. What kind of degradation MIMO tries to combat?
10. Name few applications of MIMO?
11. Briefly explain usage of space-time coding (STC) in MIMO.
12. What acronym RFID stands for?
13. Name few applications of RFID.
14. How wide the coverage of wireless USB is expected to be?
15. Do we need to have LOS for appropriate operation of wireless USB?
16. What are the challenges of ad hoc networks?
17. Why pure ad hoc networks haven not been widely deployed yet? Speculate.
18. What is the difference between wireless sensor and ad hoc networks?
19. What kind of basic blocks a wireless sensor consists of?
20. Name few applications of wireless sensor networks.
21. Briefly review NA's evolution towards 3G.
22. Briefly review Europe's evolution from GSM towards LTE.
23. How fast is HSDPA?
24. What are responsibilities of 3GPP and 3GPP2?
25. What is OMA?
26. Which technologies OMA is responsible for?