## TLT-2756, Ad hoc networks

- 1. Large scale and small scale propagation models: what are the differences
- 2. What are the differences between CSMA/CA and CSMA/CD?
- 3. Why CSMA/CD is not appropriate for wireless networks?
- 4. Explain the hidden terminal problem, support answer with picture.
- 5. Explain the exposed terminal problem, support answer with picture.
- 6. Name some applications of ad hoc networks.
- 7. Please state what is MAC protocol, explain basic features
- 8. What are specifics of MAC protocols with scheduling?
- 9. What are specifics of MAC protocols with reservation?
- 10. Explain principle of reactive routing protocols
- 11. Explain principle of proactive routing protocols
- 12. Is it better to modify TCP or use another transport protocol? Explain.
- 13. Why performance of TCP is bad in ad hoc environment?
- 14. Why not to use UDP for ad hoc networks?
- 15. Motivate the need of energy management in ad hoc networks.
- 16. Explain the idea of relay traffic blocking approach.
- 17. What is system power management (SPM)?
- 18. What specifics make ad hoc wireless network vulnerable?
- 19. Classify security attacks.
- 20. Network layer attacks. Please provide ideas and how to cope with.
- 21. List QoS parameters used in IP networks
- 22. Why the existent QoS frameworks are not applicable to ad hoc networks?
- 23. Provide your view at relations between ad hoc networks and WSNs.
- 24. What are the technical issues in WSN design?
- 25. Please list the main features for sensor OS design