Examination questions

- 1. Basics of an acquisition process. Estimated parameters and statistical approach
- 2. Time domain acquisition of GPS L1 signal
- 3. Frequency domain acquisition (Parallel code search) and Fourier transform
- 4. Averaging acquisition and DBZP algorithm
- 5. Single dwell and multiple dwell detection. Tong's algorithm
- 6. Basics of tracking process. DLL, PLL and FLL
- 7. Loop filter impact on dynamic characteristics of tracking
- 8. Discriminators. S-curve
- 9. Multipath impact on the tracking process. Spacing. Narrow correlators
- 10. Maximum likelihood tracking. Feedforward estimators
- 11. Batch processing and vector tracking
- 12. Lock detectors. Data extracting fundamentals
- 13. New GPS and Galileo signals. Acquisition of BOC signals
- 14. Tracking of BOC signals
- 15. GLONASS system and signal characteristics
- 16. Beidou system and signal characteristics