

You may use either english or finnish language.

Use of literature is not allowed.

Use of non-programmable calculator is allowed.

1. Explain how common channels are used in GSM system. Pay also attention to different operational modes.

2. Which factors affect to the capacity (=number of simultaneous users) of a mobile communication network? Which one is the most significant factor?

3. Describe shortly the architecture of mobile IPv6. What kind functionalities does it include? Use illustrations.

4. Why and when standardization is important. What kind of trends there are in standardization.

5. What is meant in the context of communication systems by
 - a) puncturing of convolutional code
 - b) "stealing flags" in GSM
 - c) GMSK
 - d) Interleaving
 - e) Mobile Station Routing Number
 - f) CELP and VSELP