

Written Exam for the M.Sc. in Economics winter 2011-2012

Telecommunications Economics

Final Exam

21.12.2011

(3-hour closed book exam)

Please note that the language used in your exam paper must correspond to the language of the title for which you registered during exam registration. I.e. if you registered for the English title of the course, you must write your exam paper in English. Likewise, if you registered for the Danish title of the course or if you registered for the English title which was followed by "eksamen på dansk" in brackets, you must write your exam paper in Danish.

If you are in doubt about which title you registered for, please see the print of your exam registration from the students' self-service system.

Answers are wanted for both questions.

A.

Describe the considerations both at EU level and among big telecommunications operators about the change to the so-called NGA (Next Generations Network). Describe the demand and supply side of this development and the relevant price issues. Discuss regulatory considerations in relation to NGA.

B.

Describe the role of mobile telecommunications in the modern European society. Make a presentation of the development of generations for mobile voice telephony (1G, 2G, 3G and 4G) and mobile broadband access (mainly 3G and 4G). Present how spectrum for mobile telephony can be allocated by the regulator.