

KFUPM - COMPUTER ENGINEERING DEPARTMENT

COE-543 – Mobile and Wireless Computing

Assignment 1 – Due March Feb 26th, 2005

In the context of wireless mobile communication networks and using literature papers and the internet, answer, *briefly and in point-form*, the following questions:

1. (50 points) What are/ were the main candidates for 3rd generation wireless mobile networks and what are/were the main drivers (companies, agencies, countries) for each proposal? Outline in few points per proposal the main characteristic per system.
2. (50 points) What are the objectives of 3GPP effort and what is the most recent vision for the 3G network? (use schematic/network diagrams to show proposed networks)
3. (50 points) What are the main features of 4G networks in terms of physical layer, MAC protocols for the access network(s) and core network? What is the expected time-line for the standardization and the deployment processes?