## KFUPM - COMPUTER ENGINEERING DEPARTMENT

## COE-543 – Mobile and Wireless Computing Assignment 1 – Due March Feb 26<sup>th</sup>, 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 3<sup>rd</sup> generation wireless mobile networks and what are/were the main drivers (companies, agencies, countries) for each proposal? Outlines 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?