Department of Computing

**Hong Kong Polytechnic University**

**Comp 5527 Mobile Computing and Data Management**

**Tutorial One**

In all the following tutorials, students are to be grouped into teams. Half of the tutorial time will be for group discussions. In another half of the time, suggested solutions will be presented by the tutor, but each group may also be asked to present their discussion results. Many of the questions do not have unique answers, so you should do your own thinking and, most desirably, enhance the given solutions.

One purpose of the tutorials is to let you practice cooperative, active learning through group discussion. Another purpose is to let you practice how to comprehend and/or discover useful information, and produce the solutions by yourself.

**Questions:**

1. In many cases, the terms mobile and wireless are used interchangeably but they are actually two different things. Discuss these two concepts and their relationships.

We have also studied the concept of *pervasive computing*. Discuss its relationship with mobile computing.

1. What is Bluetooth? Describe its characteristics. A very important term in the context of Bluetooth is piconet. Describe what a piconet is, how it works, and how it is formed.

Many piconets with overlapping coverage can exist simultaneously and form a scatternet. Devices can be slave in one piconet and master of another, but it is not possible for a master of one piconet to act as the master of another piconet. Why?