City University of Hong Kong
Department of Electronic Engineering

EE3009 Data Communications and Networking

Tutorial 7

1. Use IEEE 802.3 and IEEE 802.11 to discuss three differences between wired and wireless LANs.

2. Referring to the following figure, ports 1 through 4 in switches 1, 2 and 3 provide port-based VLAN connectivity to stations attached to these ports. A network administrator needs to interconnect the other ports and configure the switches so that stations of the same VLAN connected to different switches can communicate. Show the configuration (to which VLAN a port is assigned) and connection. Repeat the question if VLAN trunking is used.