

## ITS413 – Quiz 3X

Name: \_\_\_\_\_

ID: \_\_\_\_\_ Mark: \_\_\_\_\_ (out of 5)

### Question 1 [1 mark]

- a) The initial size of the contention window from which backoff slots are chosen in 802.11g DCF is  $CW_{min} = 15$ . If  $CW_{min}$  was set to 7, the number of collisions in a WLAN would:
- Decrease                      Stay the same                      Increase

### Question 2 [1 mark]

Consider a WLAN BSS connected to an Ethernet network. If a WLAN client sends a frame to a PC on the Ethernet network, then the frame will contain the addresses of which devices?

### Question 3 [1 mark]

Describe the active approach for a client to discover an AP in a WLAN. Your description should refer to the frame types used, who sends them and who they are sent to.

### Question 4 [2 marks]

Fill in the blank spaces:

- a) In the Internet (before Mobile IP was developed), the problem with mobility is if a host changes subnets without changing IP addresses then \_\_\_\_\_ will not work.
- b) In Mobile IP, every mobile host has a \_\_\_\_\_, whereas the networks it visits must have \_\_\_\_\_.