

## Sheet 3: Medium Access Control

Compare between Contention-Based and Contention-Free multiple access? (1

- 2) Compare between unslotted and slotted ALOHA?
- 3) A and B are the only two stations on a shared medium. Each has a steady queue of frames to send. Both A and B attempts to transmit a frame, collide and A wins first back off race. At the end of this successful transmission by A, both A and B attempt to transmit and collide. The probability that A wins the second back off race is \_\_\_\_ .
- 4) What is the disadvantage of Back-Off algorithm?
- 5) Describe the hidden terminal problem? How can it be solved?
- 6) Describe the exposed terminal problem?