ITS323 − Quiz 6

Name:＿＿＿＿＿＿＿＿＿＿＿ ID: ＿＿＿＿＿＿＿ Marks: ＿＿＿ (10)

Question 1 　[5 marks]

(a) Draw a LAN connecting 5 stations using a star topology. Label each station with a letter, e.g. A, B, C, . . . [3 marks]

(b) If the LAN has instead 50 stations and uses a bus topology, how many cables are needed in the LAN? [2 marks]

Question 2 　[5 marks]

(a) Explain the rules for a random access, distributed MAC protocol. [3 marks]

(b) Explain an advantage of the above MAC protocol compared to a reservation-based, centralised MAC protcol. [2 marks]