## COMP9332 Network Routing and Switching Self-assessed Tutorial for BGP

- Q1. When using compression, how many bytes are required to code the mask-address pair if the network address has a prefix length of
  - (a) 10 bits
  - (b) 16 bits
  - (c) 17 bits
  - (d) 24 bits
- Q2. Examine the lecture slide 45 (confederation). How many IBGP and EBGP connections are there? How many BGP connections would have been there if neither *confederation*, nor *route reflector* was chosen?
- Q3. ISP A and ISP B have separate autonomous systems assuming the numbers 100 and 200, respectively. ISP A advertises the route [N1, (100), Community2] to ISP B. What would be a possible route advertisement if ISP B wants to advertise the route to another neighbour?
- Q4 What is BGP Synchronization problem? Name two methods that address this problem without requiring all routers to run BGP. Compare the advantages and disadvantages of these two methods.
- Q5 Consider the network in Slide 56 of BGP lecture notes. Show how AS1 can enforce that all traffic from ISP1 and ISP2 arrive via Link 1 and traffic from ISP 3 via Link2.