b) Router Id iBGP internal BGP between in Sume A5.

2, a)

From 1d to 1c (path I1): The least-cost path with 2 From 1d to 1c (path I2): The least-cost path with 3

so, I = I1 || I2

b)
1d learn x between AS2 and AS3

The routers have equal AS-PATH length is 2 So, the value of I will be set to I2

c) 1d learn x between AS2 AS5 AS4 AS3

The path I1 have the shortest AS-PATH compare with I2, so I will be set yo I1.

3.
(a)
$$L=1000 \Rightarrow 5/(1000+5) \times 100 = 0.4975\%$$

$$L=100 \Rightarrow 5/(1000+5) \times 100 = 4.7619\%$$

$$\frac{(6)}{128\times10^3} = \frac{1}{16} \text{ ms}$$

$$L=1000$$
 $delay_{pack} = \frac{1000}{16} ms = 62.5 ms$

 $\frac{100}{11} = 6.25 \, \text{ms}$