Ahsanullah University of Science and Technology

Department of Computer Science and Engineering

CSE4102

Computer Networks

Assignment on

EIGRP

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Section: A1

1. **What is the IP address of the EIGRP router?**

FOR R2 NEIGHBOUR:

192.168.10.10

172.16.3.1

FOR R3 NEIGHBOUR:

192.168.10.9

192.168.10.5

2. **What interface on the R2 router is the neighbor adjacent to?**

(Serial2/0)

(Serial3/0)

3. **What is the best path to pc1?**

R2 -> R3 ->R1->PC1

4. What is the IP address and name of the successor router in this route?

172.16.1.0/24 [90/21026560] via 192.168.10.10, 00:10:40, Serial3/0 Router 3.

5. What is the feasible distance to the network that PC1 is on?

[90/21026560]

6. What is the reported distance to the 192.168.1.0 network?

192.168.1.0/24 **[90/21026560]** via 172.16.3.2, 00:10:40, Serial2/0

7. What is the feasible distance to the 192.168.1.0 network?

192.168.1.0/24 [90/3014400] via 192.168.10.10, 00:10:40, Serial3/0

8. Would R2 consider R1 to be a feasible successor to the 192.168.1.0 network?

NO.

9. How many successors are there for this network?

Hop count is 1 so successor 1.

10. What is the feasible distance to this network?

3014400

11. What is the IP address of the feasible successor?

192.168.10.10

12. What is the reported distance for 192.168.1.0 from the feasible successor?

(3014400/28160)

13. What would be the feasible distance to 192.168.1.0 if R1 became the successor?

3014400

14. Why is the R1 router (192.168.10.5) the only successor for the route to the 172.16.0.0/16 network?

P 172.16.0.0/16, 1 successors, FD is 3014400
via 192.168.10.9 (3014400/28160), Serial2/0
via 192.168.10.5 (20514560/28160), Serial3/0