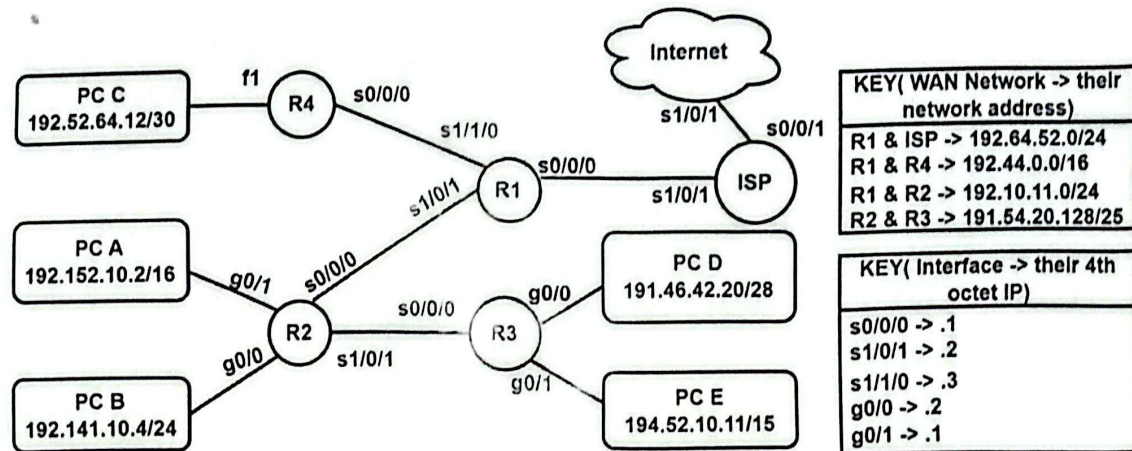


Name:

ID:

Serial:



Given, the routers in the above topology runs by sharing their routing tables with their neighbours.

- What algorithm is being used to calculate the routes dynamically? [3]
 

☐ RIP
 ☐ OSPF
 ☐ EIGRP
 ☐ None
- Which of the following is true for the algorithm being used in the topology? [2]
 

☐ It's a decentralized algorithm
 ☐ It's a global algorithm
- What method is the algorithm using to calculate the shortest paths? [3]
 

☐ Counting Hops
 ☐ Considers link cost
 ☐ Cost is always 0
 ☐ None
- During a cold start, how many networks will R3 know about without sharing any routing updates? [2]
 

☐ 1
 ☐ 2
 ☐ 3
 ☐ 4
- After how many 30 second cycles will R3 know about PC A? [3]
 

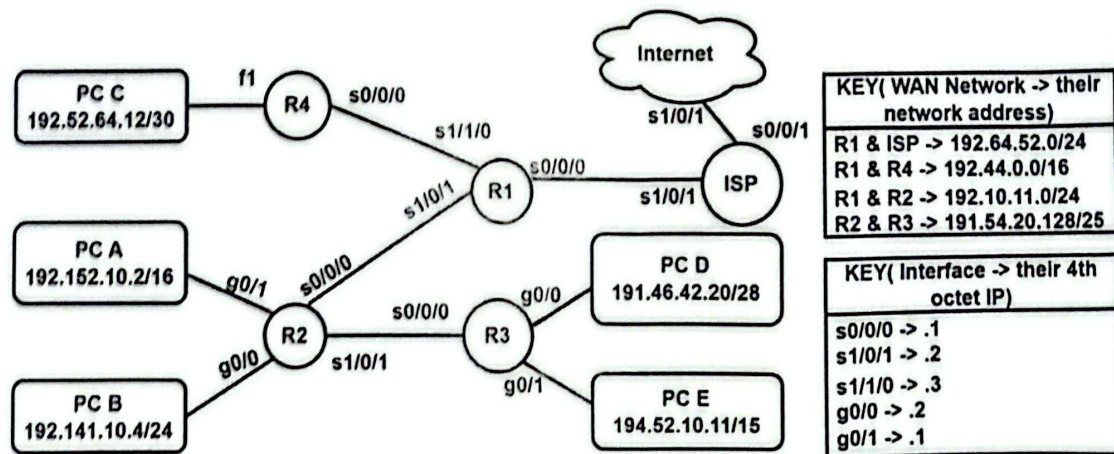
☐ 0 (0th sec)
 ☐ 1 (30th sec)
 ☐ 2 (60th sec)
 ☐ 3 (90th sec)
- A computer cannot route packets. As a result, there's no need to send any routing table updates in those directions. We handle this by marking the outgoing interfaces as a "Passive Interface". Identify the passive interfaces for R1. [2]
 

☐ s0/0/0
 ☐ s1/1/0
 ☐ s1/0/1
 ☐ None

Name:

ID:

Serial:



Given, the routers in the above topology runs by sharing their link information with every other router in the area.

- What algorithm is being used to calculate the routes dynamically? [3]
  - ☐ RIP
  - ☐ OSPF
  - ☐ EIGRP
  - ☐ None
- Which of the following is true for the algorithm being used in the topology? [2]
  - ☐ It's a decentralized algorithm
  - ☐ It's a global algorithm
- What method is the algorithm using to calculate the shortest paths? [3]
  - ☐ Counting Hops
  - ☐ Considers link cost
  - ☐ Cost is always 0
  - ☐ None
- How do the selected algorithm in Q1 mark interfaces as passive? Meaning, how do they determine through which interfaces it will NOT send the LSP updates?. [2]
  - ☐ By using LSP Packets
  - ☐ By using Hello Packets
  - ☐ By using DBD Packets
  - ☐ None
- When does this algorithm run the shortest path finding algorithm? [3]
  - ☐ Every 30 seconds
  - ☐ Once after all the databases sync LSPs
  - ☐ By constantly flooding the LSPs
  - ☐ None
- Which of the following algorithm finds the shortest path faster?
  - ☐ RIP
  - ☐ OSPF
  - ☐ EIGRP
  - ☐ None
  - ☐ RIP
  - ☐ OSPF
  - ☐ EIGRP
  - ☐ None