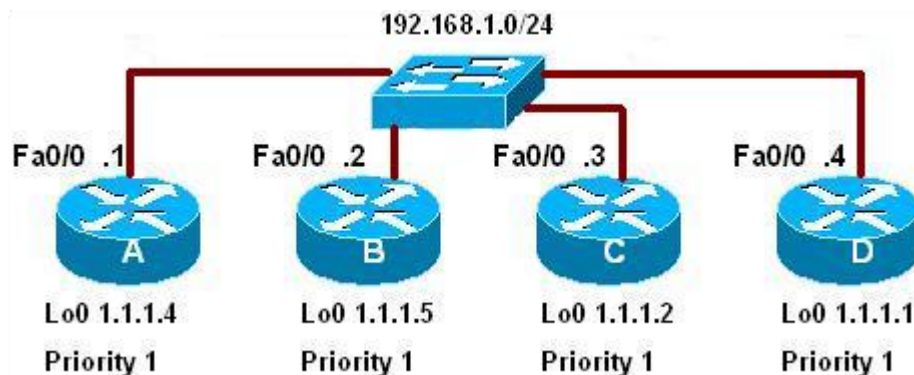


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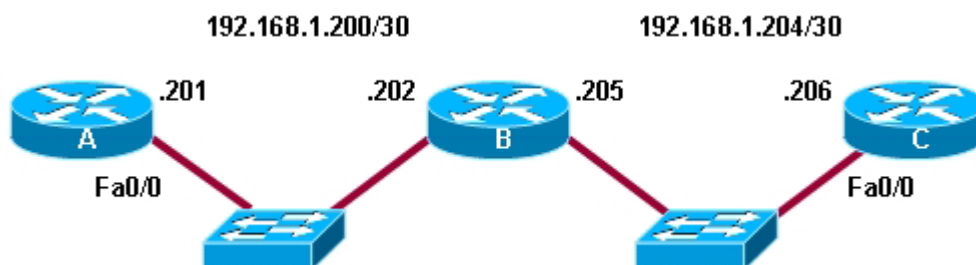
Northampton Community College
CISC267 – CCNA 2 - Chapter 11 Study Guide

1. How are external routes indicated in an OSPF routing table? Identify the two types.
2. What parameters must be identical for OSPF adjacencies to form?
3. OSPF uses a DR and BDR. Explain these and their roles in a large network.
4. A converged OSPF network has been up and running for months. All configurations have been saved. Suddenly a router loses power. When it reboots, what information will be in its routing table just after the configuration file is loaded but before OSPF has converged?
5. What is the proper sequence of commands to add network 200.20.30.0/24 to ospf process 23? Assume you are at the privilege prompt.



6. What is the result of the DR/ BDR election above?

8. Summarize the following networks with **ONE** OSPF network statement.
172.16.4.0/24 172.16.5.0/24, 172.16.6.0/24, 172.16.7.0/24.
9. What command would statically configure the router ID for a router?
10. Explain the process ID in the OSPF configuration.
11. A network has 5 routers all sharing the same switch via fast-ethernet ports. How many adjacencies are formed to build a complete topology (assuming no DR or BDR election)?
12. What is the default AD for OSPF?
13. What command is used to set the ospf priority? What prompt is it configured at?
14. What is the default ospf priority? What priority value prevents a router from participating in DR/BDR elections?
15. What metric does OSPF use? What is the formula?
16. Explain the rule for OSPF router ID.



17. Identify the DR and BDRs in the above scenario. (Assume default priorities and no loopbacks)

18. What command shows information about OSPF neighbors? What information would be displayed?

19. What command is used to propagate a default route through OSPF (don't forget the prompt)?

20. An OSPF network has converged. If you add a new router to the network with a higher router ID, what will happen to the current DR/BDR?

21. What are the OSPF network types? Which types have a DR/BDR election?

22. Explain the hello and dead intervals.