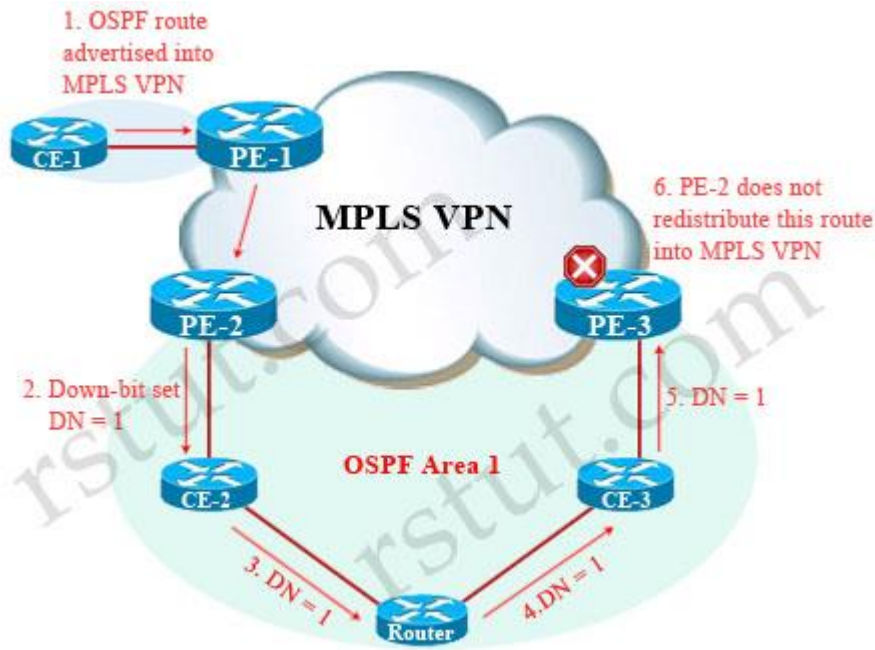


DN Down Bit set for OSPF to BGP/MPLS IP

- DN = 1 when an OSPF route is distributed from the PE to the CE, for Type 3 and Type 5 LSAs



The RFC 4577 says:

When a type 3 LSA is sent from a PE router to a CE router, the DN bit in the LSA Options field MUST be set.

This is used to ensure that if any CE router sends this type 3 LSA to a PE router, the PE router will not redistribute it further.

When a PE router needs to distribute to a CE router a route that comes from a site outside the latter's OSPF domain, the PE router presents itself as an ASBR (Autonomous System Border Router), and distributes the route in a type 5 LSA.

The DN bit [OSPF-DN] MUST be set in these LSAs to ensure that they will be ignored by any other PE routers that receive them.

