

## Quiz on LDP

5 Marks

Name: \_\_\_\_\_

1. **A.** We've covered details of the terms "pipe mode" and "uniform mode". Which mode allows a user some visibility to the ISP's network (via TTL values), and which mode makes the ISP's core network completely invisible?

pipe = invisible; uniform = visible

**B.** Your answer above is only true for certain, specific types of VPN service. For each of the 3 VPN types, **clearly** identify whether or not the choice of mode (pipe, uniform) affects the visibility of the ISP network (via TTL values).

TTL values are ONLY impacted in a L3/VPRN  
For L1/VPWS and L2/VPLS, there's never any impacted on TTL

2. [1 mark] Divide all the following terms into groups of similar/closely related terms: (in alphabetical order) downstream, eLER, iLER, POP, PUSH, upstream. Think carefully about what the *minimum* number of groups is.

upstream, iLER, PUSH  
downstream, eLER, POP

3. [2 marks] Give the lines to fully and correctly configure just OSPF on "R1", which has pre-configured interfaces "toR2", "toR3", "toR4" and "toR5".

**Bonus:** This quiz is supposed to be about LDP; why do we care even one little bit about OSPF??

```
configure router ospf
area 0
interface system    #[1 mark for this!]
interface toR2
interface toR3      #[1 mark for remainder]
interface toR4
interface toR5
```

LDP is bound to, and always follows the IGP; we're going to need OSPF!