



**Lab Report: 2.2.13 Packet Tracer**  
**Point-to-Point Single-Area OSPFv2 Configuration**  
*Course: ITI-Cybersecurity-Summer-2025*

Ammar Yasser Mohamed

July 28, 2025

## **Answers to Lab Questions**

**Q1. How many statements are required to configure OSPF to route all the networks attached to router R1?**

**Answer:** Three network statements are required—one for each interface: G0/0/0 (LAN), S0/1/0, and S0/1/1.

**Q2. The LAN attached to router R1 has a /24 mask. What is the equivalent of this mask in dotted decimal representation?**

**Answer:** 255.255.255.0

**Q3. Subtract the dotted decimal subnet mask from 255.255.255.255. What is the result?**

**Answer:** 0.0.0.255

**Q4. What is the dotted decimal equivalent of the /30 subnet mask?**

**Answer:** 255.255.255.252

**Q5. Subtract the dotted decimal representation of the /30 mask from 255.255.255.255. What is the result?**

**Answer:** 0.0.0.3

**Q6. Which interfaces on R3 should be configured with OSPF?**

**Answer:** All interfaces connected to networks: G0/0/0, S0/1/0, and S0/1/1.

**Q7. Which interfaces on R1, R2, and R3 are LAN interfaces?**

**Answer:**

- R1: G0/0/0
- R2: G0/0/0
- R3: G0/0/0