# **Department of Computer Science and Engineering Islamic University of Technology (IUT)** A subsidiary organ of OIC

# **Lab Report 03**

# CSE 4412: Data Communication and Networking Lab

## 

## **Name: Student ID: Section: Semester: Academic Year:**

**Date of Submission:**

### **Title:** Understanding the basics of Variable Length Subnet Mask (VLSM) and VLANs and Inter-VLAN communication

### **Objectives**:



### **Diagram of the experiment:**

(Provide screenshot of the final network topology. Make sure to label the network components.)

**TASK #01:**

**TASK #02:**

### **Working Procedure:**

**(**Explain in brief how you completed the tasks. Provide necessary screenshots of used commands for each task.)

**TASK #01:**

**TASK #02:**

### **Questions (Answer to the point)**:

* + - 1. How many host bits are needed in the largest required subnet?

**Ans:**

* + - 1. How many VLANs need to be configured to each of the switches?

**Ans:**

* + - 1. Which interfaces need Access Link?

**Ans:**

* + - 1. Which interfaces need Trunk Link?

**Ans:**

* + - 1. After configuring VLAN, what will happen if we broadcast?

**Ans:**

### **Challenges (if any):**

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