

University of Asia Pacific  
Department of Computer Science and Engineering  
Computer Network Lab Final Exam

Marks: 50

Time: 2hrs

Student Id:

Name:

Section:

————— Serial connection

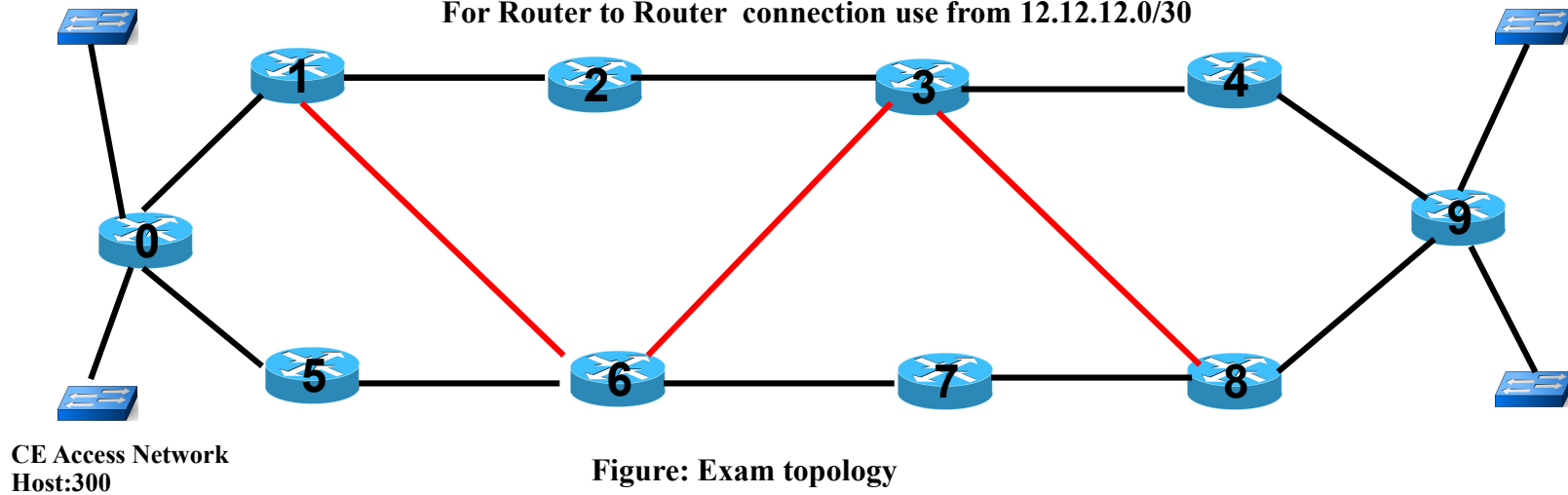
————— Fiber connection

CSE Access Network  
Host: 500

Network base address will start from: 172.12.0.0/16

For Router to Router connection use from 12.12.12.0/30

This network will have  
4 web servers:  
1. www.uap.edu  
2. www.cse.edu  
3. www.bba.edu  
4. www.admin.edu



**Tasks:**

- Complete the VLSM calculation for the above network and add as a separate file in the google classroom. 05
- You have to configure access network Routers with the terminal password enable password and virtual terminal (vty) password, as a password use your 8-digit **registration id**. 10
- In each router, use OSPF routing protocol where the **process id** will be the last three digits of your **registration id**, and **area-id** will be your whole 8-digit registration number. For example, if your **registration id** is 16201061, the **process id** will be "061", and the **area-id** will be "16201061." After finishing the configuration save the change in the start-up file. 25
- For the DNS, you will add a DNS server with the IP address of **192.168.10.34/28** at Router 2 and share the information with both CSE and CE access network 2
- For testing, you will add PC's on CSE and CE Access network with the last usable host of that particular network. 3
- To configure web servers, you may choose the IP address sequentially from that particular network. 5