

Computer Networks 1 Lab 1

Network Devices

Student Name:	
Student No.:	

I. Objectives:

- Get to know basic network devices
- Understand functions of network devices
- Able to connect different network devices together to form a simple network

II. Content

1. Get to know network devices:

- ✓ Network Interface Card (NIC)
- ✓ Cables
- ✓ Hub
- ✓ Switches
- ✓ Routers
- ✓ Access Points
- ✓ Modems

2. Understanding functions of network devices

a. Network Interface Card (NIC)



NIC functions:		
Code of NIC processors:		
Check NIC of a computer	, what is its MAC address?	



Cable to conne	ct NIC to	a networ	rk:
Type:			
Standard:			

b. Hubs



Roles of hub in a network: Main characteristics: Weaknesses of hub: Hub ports:

c. Switches

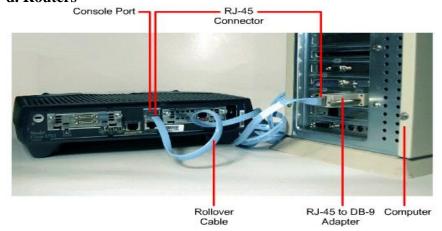




Roles of switches in a network:
Main characteristics of switches:
Differences between hubs and switches:
Weaknesses of switches:
Switch ports:



d. Routers



Roles of routers in a network: Main characteristics of routers: Differences between routers and switches: Router ports:

d. Access Points



Roles of access points:

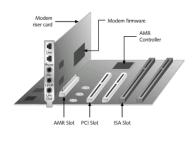
Main characteristics of access points:

Access point's interfaces:

Compare access point and other networking devices mentioned above:



e. Modem







Differentiate:

- Dial-up modem
- ADSL Modem
- Cable Modem

For each type of modem describle its roles and characteristics:

3. Connecting network devices:

	Identify	y the	type of	f network	cable can	be used for	· below	network	connections:
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- a) Computer and hub _____
- b) Computer and switch _____
- c) Computer and router _____
- d) Computer hub and hub _____
- e) Hub and switch _____
- f) Hub and router _____
- g) Switch and switch_____
- h) Swith and router _____
- k) Router and router _____