

Al-Mustaqbal University / College of Engineering & Technology Department of Computer Techniques Engineering Class (1)

Subject (English) / Code (UOMU000002)
Lecturer (Dr. Noor Abdalkarem Mohammedali)

1st term – Lecture No. 3 & Lecture Name (Computer Networks Questions)

Computer Networks Questions

Answer only five Questions

Question 1: Definitions (10 Marks)

- (a) Define Five only: protocol, network topology, IP address, Signal, Router, Node. (5 Marks)
- **(b)** What is a "firewall" in the context of computer networks? (3 Marks)
- (c) What is "bandwidth" in a computer network? (2 Mark)

Question 2: Enumeration (20 Marks)

- (a) Enumerate four advantages of using a computer network. (10 Marks)
- **(b)** List three types of wireless network technologies. (10 Marks)

Question 3: Explanation only one a or b (20 Marks)

- (a) Explain the difference between "TCP" and "UDP" protocols. (20 Marks)
- (b) Briefly explain the purpose of the OSI model. (20 Marks)

Question 4: Diagram and Analysis solve a and b (20 Marks)

- (a) Draw and label a simple star network topology. (10 Mark)
- **(b)** Analyze one advantage and one disadvantage of using a star topology. (10 Mark)

Question 5: True or False (2 Marks)

- (a) IPv6 addresses are 32 bits long. (1 point)
- **(b)** A router operates at the application layer of the OSI model. (1 point)

Question 6: Fill in the Blanks (2 Marks)

(a) The main purpose of a	is to translate domain names into IP addresses.
	(1 Mark)

(b) The maximum data transfer rate of a network is known as its _____. (1 Mark)