


National University of Computer and Emerging Sciences, Lahore Campus

	Course Name:	Introduction to the Internet of Things	Course Code:	CS457
	Program:	Electrical Engineering	Semester :	Spring 2020
	Duration:	15 minutes	Total Marks:	25
	Exam Date:	11 February 2020	Weight:	3.33
	Section:	EE	Page(s):	2
	Exam Type:	Quiz-1 SOLUTION		

Student Name: _____ **Roll No.** _____
Section: _____

Instruction/Notes: 1. Do not forget to write your Name and Roll Numbers.
2. Solve on the paper and Return.

CLO 01: Define IOT and describe its evolution. Explain the idea, the vision, the challenges and the opportunities

Question No. 1

Marks: 25

Give short answers to the following questions in the space provided:

1. Give five synonyms for the Internet of Things (IOT).

- a) Internet of Everything
- b) Machine-to-Machine
- c) Web of Things
- d) Smart Object Networks
- e) Pervasive Networks

2. Name five major areas leading up to today's Internet of Things.

- a) Embedded Systems
- b) Computer Networks/Data Communication Networks/Internet
- c) Mobile Telephony/Cellular Communications/Cellular Networks
- d) Telemetry
- e) Wireless Sensor Networks
- f) Ubiquitous and pervasive computing

3. Name five wireless connectivity standards that have been created for the IOT.

- a) 6LoWPAN
- b) ZigBee
- c) WiFi/Wifi-HaLow/WiFi-HEW
- d) Bluetooth/BLE/Bluetooth-Light/Bluetooth Smart

- e) Cellular Networks/LTE-M/NB-IOT/EC-GSM
- f) Wireless Sensor Networks

4. Name any five major research challenges for the IOT.

- a) Security and Privacy
- b) Reliability and Dependability
- c) Usability, Management, Interoperability
- d) Software architecture
- e) Information-centric Networking
- f) Radio innovations
- g) Testing and evaluation
- h) Social, economic and policy issues
- i) Education
- j) Low Battery
- k) Low Memory

5. Name five popular applications of the IOT.

- a) Smart Grid
- b) Smart Home
- c) Smart City
- d) Smart Wearables
- e) Smart Healthcare/Patient Monitoring System
- f) Industrial Internet of Things
- g) Smart Farming/Smart Agriculture