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Reg. No. : | | | | | | | | | | |

Question Paper Code: 96403

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2023

Sixth Semester

Electronics and Communication Engineering

19UEC603– INTERNET OF THINGS

(Regulations 2019)

Duration: Three hours Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

1. _____ will enable the humans to access, control and manage the operation. CO1-U

   (a) IoT (b) Big data (c) Network (d) Communication

2. Which of the following is used to capture data from the physical world in IoT devices? CO1-U

   (a) Sensors (b) Actuators (c) Microprocessors (d) Microcontrollers

3. M2M stands for _____ CO1-U

   (a)Machine to Machine (b) Machine to Man (c) Man to Machine (d) All of the above

4. A hash function guarantees integrity of a message. It guarantees that message has not been CO1- U

   (a) Replaced (b) Overviewed (c) changed (d) Violated

5. The core element is operated by _____ CO1- U

   (a) PaaS (b) IoT service Provider (c) SaaS (d) IaaS

PART – B (5 x 3= 15 Marks)

6. Determine the basic operations in IoT. CO1- U
7. Differentiate active and passive sensors with example. CO1- U
8. Examine whether M2M and IoT are same? CO1- U
9. Why we need of IoT Security? CO1- U
10. List out the applications of IoT. CO1- U

PART – C (5 x 16= 80 Marks)

11.	(a)	Apply the impact of the Internet of Things (IoT) in our daily lives with suitable example.	CO2- App	(16)
		Or		
	(b)	Apply the concept of domain specific IoTs for any two domains.	CO2- App	(16)
12.	(a)	With neat sketch explain the function of Physical layer and MAC layer in IEEE 802.15.4.	CO1- U	(16)
		Or		
	(b)	Discuss in detail about the types of sensors for smart devices.	CO1- U	(16)
13.	(a)	Apply the knowledge of M2M to find the stress measurement.	CO2- Ana	(16)
		Or		
	(b)	Define various application areas of M2M and explain any one of it in detail.	CO2- Ana	(16)
14.	(a)	Analyze the threats related issues on different OSI layers of network.	CO4- Ana	(16)
		Or		
	(b)	Analyze the vulnerabilities of IoT and Illustrate with a specific case.	CO4- Ana	(16)
15.	(a)	Design a business model innovations for IoT	CO2- App	(16)
		Or		
	(b)	Design a model for automotive applications in IoT	CO2- App	(16)