

C

Reg. No. :

--	--	--	--	--	--	--	--	--	--

**Question Paper Code: 96403**

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2025

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)

- \_\_\_\_\_ will enable the humans to access, control and manage the operation. CO1-U  
(a) IoT (b) Big data (c) Network (d) Communication
- 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
- M2M stands for \_\_\_\_\_. CO1-U  
(a) Machine to Machine (b) Machine to Man (c) Man to Machine (d) All of the above
- A hash function guarantees integrity of a message. It guarantees that message has not been CO1- U  
(a) Replaced (b) Overlooked (c) changed (d) Violated
- 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)

- Determine the basic operations in IoT. CO1- U
- Differentiate active and passive sensors with example. CO1- U
- Examine whether M2M and IoT are same? CO1- U
- Why we need of IoT Security? CO1- U
- 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)