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**Question Paper Code: 59415**

B.E./B.Tech. DEGREE EXAMINATION, APRIL 2019

Elective

Electronics and Communication Engineering

15UEC915–INTERNET OF THINGS

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

1. What is the name of first recognized IoT device? CO1- R  
(a) Smart watch      (b) ATM      (c) Radio      (d) Video game
2. The number of elements in the Open IoT Architecture? CO2- R  
(a) 6 elements      (b) 8 elements      (c) 7 elements      (d) 3 elements
3. IP address is currently CO3- R  
(a) 4 bytes long      (b) Available in plenty  
(c) 6 bytes long      (d) Not assigned as it is all used up
4. \_\_\_\_\_ layer is the communication layer that connects the IoT devices with WAN. CO4- R  
(a) Internet layer      (b) Application layer      (c) Sensor layer      (d) Network layer
5. The IoT platforms are mainly divided into how many types CO5- R  
(a) 3 types      (b) 5 types      (c) 4 types      (d) 2 types

PART – B (5 x 3= 15Marks)

6. What is Internet of Things (IoT) ? CO1- R
7. Write note on RFID. .CO2- R
8. What are wireless sensor network? CO3- R

9. Define the following CO4- R
- (i) Trust for IoT
  - (ii) Security and Privacy for IoT
  - (iii) Physical IoT Security.

10. List the IoT Application and Deployment Scenarios in different domains. CO5- R

PART – C (5 x 16= 80 Marks)

11. (a) Explain in detail IoT Architecture with neat diagram. CO1- U (16)

Or

- (b) Discuss area of development and standardization in Internet of Things and Write in detail applications of Internet of Things. CO1- U (16)

12. (a) Describe in detail about the structural aspects of Internet of Things and Environment Characteristics. CO2- U (16)

Or

- (b) Explain about open architecture and various key Internet of Things technologies. CO2- U (16)

13. (a) Define RFID and Discuss various components of RFID system. CO3- U (16)

Or

- (b) Briefly explain about Web of Things and also explain the challenges of WSN. CO3- U (16)

14. (a) Why security required in IoT? Explain in detail various security model in Internet of Things. CO4- U (16)

Or

- (b) What is Internet of Things security tomography? Explain in detail layered attacker model. CO4- U (16)

15. (a) Explain in detail CO5- U (16)
- (i) Business model
  - (ii) Business innovation and
  - (iii) Business model scenario in Internet of Things.

Or

- (b) Explain in detail application of Internet of Things in city automation, home automation and e-health body area network. CO5- App (16)