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

Question Paper Code: 59415

B.E./B.Tech. DEGREE EXAMINATION, DEC 2020

Elective

Electronics and Communication Engineering

15UEC915–INTERNET OF THINGS

(Regulation 2015)

Duration: One hour Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

1. The huge number of devices connected to the Internet of Things has to communicate automatically, not via humans. What is this called? CO1- R

   (a) Skynet (b) Bot (c) Machine (d) Intercloud

2. NFC stands for _____ CO1- R

   (a) Near Fast Communication (b) Near Field Communication

   (c) Near Field Customer (d) Near Field Connection

3. _____ inIoT as one of the key characteristics, devices have different hardware platforms and networks. CO2- R

   (a) Sensors (b) Heterogeneity (c) Security (d) Connectivity

4. RFID examples not applicable to IoT CO2- R

   (a) Warehouse retailer automotive (b) Grocery chain transportation

   (c) Retail applications (d) Factory temperature application

5. Which of the following is not RFID type _____ CO3- R

   (a) Ultra-Low frequency (b) Low frequency

   (c) High frequency (d) Ultra-High frequency

6. _____this mode of wireless network allows devices to communicate directly with each other. CO3- R

   (a) Ad-hoc (b) Digital (c) Physical (d) Infrastructure

7. In Message Confidentiality, transmitted message must make sense to only intended CO4- R

(a) Receiver (b) Sender (c) Modulator (d) Translator

8. MAC stands for CO4- R

(a) Message authentication code (b) Message arbitrary connection

(c) Message authentication control (d) Message authentication cipher

9. The core element is operated by _____ CO5- R

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

10. BAN gives _____ CO5- R

(a) Communication (b) Storage

(c) Network connectivity (d) Communication and storage

PART – B (3 x 8= 24 Marks)

(Answer any three of the following questions)

11.	Explain about basic nodal capabilities of IoT.	CO1- U	(8)
12.	Discuss in detail about the Key IoT technologies	CO2- U	(8)
13.	Explain about Integration Approaches and Challenges of WSN for IoT	CO3- U	(8)
14.	Explain about security requirements and vulnerabilities.	CO4- U	(8)
15.	Explain about smart metering and automotive applications of IoT	CO5- U	(8)