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

Question Paper Code: 59276

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

Open elective

Civil Engineering

15UCS976 - INTERNET OF THINGS

(Common to ECE, EEE, EIE, Mechanical, IT, Chemical)

(Regulation 2015)

Duration: One hour Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

1. The Bluetooth supports CO1- R

   (a) point-to-point connections (b) point-to-multipoint connection

   (c) both (A) and (B) (d) None

2. What does a Hall Effect sensor sense? CO1- R

   (a) Temperature (b) Moisture (c) Magnetic fields (d) Pressure

3. The USB device follows _____ structure CO2- R

   (a) List (b) Huffmann (c) Hash (d) Tree

4. Data rate available for use on USB is _____. CO2- R

   (a) 12 Mbits per second (b) 1.5 Mbits per second

   (c) Both (A) and (B) (d) No restriction

5. What does p refer to in ATmega328p? CO3- R

   (a) Production (b) Pico-Power (c) Power-Pico (d) Programmable on chip

6. Arduino shields are also called as_____ CO3- R

   (a) Extra peripherals (b) Add on modules

   (c) Connectivity modules (d) Another Arduinos

7. _____ can be used to retrieve the operations allowed on a resource. CO4- R

(a) GET (b) PUT. (c) OPTIONS (d) DELETE

8. Which of the following header of HTTP response sets expiration date and time of caching? CO4- R

(a) Date (b) Last Modified (c) Cache-Control (d) Expires.

9. Which of the following clustering requires merging approach? CO5- R

(a) Partitional (b) Hierarchical. (c) Naive Bayes (d) None of the Mentioned.

10. Which action sequences are used to achieve the agent's goal? CO5- R

(a) Search. (b) Plan. (c) Retrieve. (d) Both a & b..

PART – B (3 x 8= 24 Marks)

(Answer any three of the following questions)

11. Explain the various components available in Internet of Things (IoT)? CO1- U (8)

12. Assume that you are deploying a medical IoT. Develop an Arduino sketch to implement a Ethernet client and server to transfer clinical data captured with sensors. Illustrate the communication with a neat schematic diagram. CO2- Ana (8)

13. Write an Arduino sketch for reading RFID Tags using the Serial Protocol. CO3- Ana (8)

14. Briefly explain about the Servicing through a Uniform Interface in RESTful Smart Things. CO4- U (8)

15. Discuss data synchronization in different types of IoT Network architectures with neat diagrams. CO5- U (8)