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Question Paper Code: 59210

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

Fourth Semester

Computer Science and Engineering

15UCS910- BUILDING INTERNET OF THINGS

(Regulation 2015)

Duration: 1.15 hrs

Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

1. A wi-fi enabled device can be CO1- R
(a) PC (b) Game console (c) Mobile phone (d) All of the above
2. RFID stands for _____ CO1- R
(a) Radio-field identification (b) Radar-frequency identification
(c) Radio-frequency identification (d) None of the above
3. Gyroscope is a sensor which measures the _____ CO2- R
(a) Acceleration (b) Velocity (c) Physical orientation (d) Pressure
4. Which one of the below instance are not a type of actuator CO2- R
(a) An electric motor (b) A hydraulic system
(c) A pneumatic system (d) Microphone
5. Information about an objects history is called _____ CO3- R
(a) Object data (b) Event data (c) Security data (d) None of these
6. When do we call the states are safely exportable? CO3- R
(a) A goal state is unreachable from any state
(b) Goal state is denied access
(c) A goal state is reachable from every state
(d) None of the mentioned
7. EURIDICE Context Model is represented within the _____ CO4- R

- (a) Cyc Knowledge Base (b) Cyc Ontology Base
(c) Cyc Context Base (d) All of the above
8. RFD stands for CO4- R
(a) Reduced Function Devices (b) Reduced Field Devices
(c) Reduced Functionality Devices (d) Reduced Functional Devices
9. _____ is the feature of cloud computing that allows the service to CO5- R
change in size or volume in order to meet a user's needs.
(a) Scalability (b) Virtualization (c) Security (d) Cost-savings
10. REST services operate over _____ protocols. CO5- R
(a) UDP (b) HTTP (c) TCP (d) All of these

PART – B (3 x 8= 24 Marks)

(Answer any three of the following questions)

11. What is RFID and Explain its Applications. CO1- U (8)
12. Write Arduino sketch to control the state of a temperature sensor and CO2- U (8)
to print the reading in a serial monitor.
13. Explain the design guidelines for an efficient clustering process. CO3- U (8)
14. A trader has to deploy a DiY based WSN for selling agricultural CO4- U (8)
produce. Propose a suitable architecture for the same and describe the
role of different elements of the network with neat diagrams
15. Assume that you are deploying a smart agricultural IoT. How are the CO5- U (8)
devices resource constrained in your IoT? How will you web-enable
them? Explain with suitable illustrations and sketches