|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  |

**RNS Institute of Technology**

**Department of MCA**

**V Semester - II Test – Oct 2018**

**Internet of Things (16MCA552)**

**Duration: 90 mins. Max Marks: 45 Time:9. 00a.m-10: 30a.m Date: 25/10/2018**

**NOTE: Answer *FIVE* full questions.**

***Don’t write anything on question paper other than USN.***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Qn.**  **No.** | | **Questions** | **Marks** | **BCL** | **CO** |
| 1 | a) | Define Device. | 2 | L1 | CO3 |
|  | b) | Explain the properties of device. | 7 | L2 | CO3 |
| **OR** | | | | | |
| 2 | a) | List the types of devices. | 1 | L1 | CO3 |
|  | b) | Discuss the deployment scenarios for devices. | 8 | L2 | CO3 |
|  | | | | | |
| 3 | a) | Explain Gateway in detail. | 5 | L1 | CO3 |
|  | b) | List out the differences between LAN and WAN. | 4 | L2 | CO3 |
| **OR** | | | | | |
| 4 | a) | Define Data Management. | 2 | L1 | CO3 |
|  | b) | Explain the key characteristics of M2M. | 7 | L2 | CO3 |
|  | | | | | |
| 5 | a) | Describe how data is managed in M2M. | 7 | L2 | CO3 |
|  | b) | Mention how M2M data fulfills Bigdata characteristics. | 2 | L2 | CO3 |
| **OR** | | | | | |
| 6 | a) | Write the key characteristics of cloud computing. | 2 | L1 | CO3 |
|  | b) | Explain different cloud computing service models. | 7 | L2 | CO3 |
|  | | | | | |
| 7 | a) | Define descriptive and predictive analysis | 2 | L1 | CO3 |
|  | b) | Explain in detail about distributed business process in IoT. | 7 | L2 | CO3 |
| **OR** | | | | | |
| 8 | a) | With diagram explain CRISP-DM process in detail. | 6 | L2 | CO3 |
|  | b) | Write short note on (i) data (ii) information (iii) knowledge | 3 | L2 | CO3 |
|  | | | | | |
| 9 | a) | With a neat diagram. Explain the overview of analytics architecture. | 7 | L2 | CO4 |
|  | b) | Mention the ETSI M2M interfaces | 2 | L2 | CO4 |
| **OR** | | | | | |
| 10 | a) | Briefly explain the ETSI M2M high –level architecture. | 9 | L1 | CO4 |

**Course Outcomes:**

CO1: Explore the constraints and opportunities of M2M, wireless and mobile networks of IoT

CO2: Analyze the societal impact of IoT Security events

CO3: Acquire the fundamental knowledge of devices and sensors

CO4: Interpret the architecture of M2M and IoT

CO5: Design or develop parts of an Internet of Things solution and map it toward selected business model(s)

CO6: Evaluate ethical and potential security issues related to the Internet of Things