Reg. No. \_\_\_\_\_\_\_\_\_\_\_\_\_



**End Semester Examination – Nov / Dec – 2019**

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| **Code :** | **18CS3016** | **Duration :** | **3hrs** |
| **Sub. Name :** | **CLOUD COMPUTING AND IOT** | **Max. Marks :** | **100** |

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| **Q. No.** | **Sub Div.** | **Questions** | **Course Outcome** | **Marks** |
| **ANSWER ANY FIVE QUESTIONS (5 x 16 = 80 Marks)** | | | | |
| 1. | a. | Outline the six features that plays a significant role in design of Machine 2 Machine communication. | CO1 | 8 |
| b. | Tabulate the pillars of Internet of Things. | CO1 | 8 |
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| 2. | a. | Explain the working principle of SCADA middleware. | CO2 | 8 |
| b. | Elucidate the LBS and Surveillence middleware. | CO2 | 8 |
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| 3. | a. | Schematically denote the pillars of the Web of Things to design intelligent systems. | CO3 | 4 |
| b. | Highlight the key objectives of the IoT-A consortium used to design smart systems. | CO3 | 4 |
| c. | Sketch the OPC standards for device connection. | CO3 | 8 |
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| 4. | a. | Write notes on NIST’s SPI Architecture. | CO5 | 8 |
| b. | Compare and contrast M2M Application Integration with XaaS. | CO4 | 8 |
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| 5. | a. | What is the need for various deployment models in cloud computing? Describe the various deployment models in cloud computing. | CO4 | 8 |
| b. | Examine the requirement of Resource provisioning in cloud. What are the parameters that affect resource provisioning? Elaborate on resource provisioning. | CO4 | 8 |
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| 6. | a. | Schematically represent and explain the ‘Device, Connect and Manage’ concept in IoT. | CO2 | 8 |
| b. | Illustrate the framework for WSN based on Open Geospatial Consortium, Sensor Web Enablement (OGC SWE) standardization. | CO5 | 8 |
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| 7. | a. | Paraphrase the challenges of IoT information security. | CO6 | 8 |
| b. | Summarize the essential features that plays a major role in design and implementation of Cloud of Things. | CO5 | 8 |
| **COMPULSORY QUESTION (1 x 20 = 20 Marks)** | | | | |
| 8. | a. | Comment on the security issues in trust management system. | CO6 | 10 |
| b. | Justify the need for standardization bodies of IoT and Cloud. | CO3 | 10 |