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



**End Semester Examination – Nov/Dec – 2018**

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| **Code :** | **18CS3053** | **Duration :** | **3hrs** |
| **Sub. Name :** | **INTERNET OF THINGS SECURITY** | **Max. marks :** | **100** |

**ANSWER ANY FIVE QUESTIONS (5 x 16 = 80 Marks)**

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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. |  | Transformation from M2M to IoT: discuss the background for this transformation. Also Explain the trends in information and communication Technologies. | CO1 | 16 |
|  |  |  |  |  |
| 2. | a. | List out the major building blocks of IoT. What are the security considerations related to IoT applications? | CO2 | 8 |
| b. | Data Management is not an essential requirement in M2M environment. (yes / No) Defend your answer with proper explanation. | CO1 | 8 |
|  |  |  |  |  |
| 3. | a. | Identify and list out the security enabling technologies that may require in IoT architecture model. | CO3 | 8 |
|  | b. | What are the security challenges, need to be addressed for IoT Data? | CO4 | 8 |
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| 4. | a. | Define Access control in IoT. | CO2 | 2 |
|  | b. | Discuss the account monitoring and authentication procedure in internet of things. | CO1 | 14 |
|  |  |  |  |  |
| 5. | a. | Accounting and key management services are not required in IOT. Justify your answer related to above statement. | CO4 | 8 |
|  | b. | List out the requirements of cryptography in IoT. Also explain the role of cryptography in securing the IoT. (including cryptography Primitives) | CO5 | 8 |
|  |  |  |  |  |
| 6. |  | Analyze the following methods in encryption and decryption related to IoT security.   1. Asymmetric Encryption 2. Block chain modes 3. Random number generation | CO5 | 16 |
|  |  |  |  |  |
| 7. |  | Identify the issues while implementing the Lightweight and robust schemes for Privacy protection. Also analyse the requirements of privacy protection for an IoT application development. | CO2 | 16 |
|  | | | | |
| **COMPULSORY QUESTION (1 x 20 = 20 Marks)** | | | | |
| 8. | a. | Application developer developing an IoT application for automatic product delivery process for online store. Which are the cloud services need to be adopted to provide product delivery services to customers. | CO5 | 15 |
|  | b. | In IoT based product delivery services, how to provide a user level authenisation and Cloud IoT security controls. | CO4 | 5 |