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

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

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| **Code :** | **17CS3077** | **Duration :** | **3hrs** |
| **Sub. Name :** | **INTERNET OF THINGS** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. |  | Identify the design guide lines for connected devices in the internet of things. Also analyse the design principles of connected devices. | CO2 | 20 |
| (OR) | | | | |
| 2. | a. | List out the application layer protocols, that may suitable for an IoT application design. | CO1 | 5 |
| b. | In current scenario most of the internet protocols will support the deployment of IoT application in realtime. Analyse this statement and defend your answer with proper examples. | CO3 | 15 |
|  |  |  |  |  |
| 3. |  | Consider the product development: Current product have the design of more than one design. What are the difficulties may be faced by the production team when they are in the production phase of the product. Also discuss the issues related to emmeded platform in product development. | CO2 | 20 |
| (OR) | | | | |
| 4. | a. | List out he contributions of open source hardware association and open source software community towards the development of hardware and software product development in IoT. | CO1 | 15 |
| b. | Why open source design is not adopted by most of the designers? | CO2 | 5 |
|  |  |  |  |  |
| 5. | a. | Consider the IoT component design: if a component is designed using non digital fabrication method, how the design method is differ from digital fabiration method. Discuss this issue with proper example. | CO1 | 15 |
| b. | List out the advantages of laser cutting. | CO1 | 5 |
| (OR) | | | | |
| 6. | a. | Define clockodillo in API design. | CO1 | 5 |
| b. | In deployment of an IoT application, the API design and implementation face the difficulties related to real time. List out the difficulties in API design for IoT products. Also explain the ways to solve the issues with required examples. | CO2 | 15 |
|  |  |  |  |  |
| 7. |  | While making the business model for connected devices to support the day to day environment in smart home, connected homes and other related IoT application, what are the difficulties, the application designer may face. Explain the methods can a be adopted to solve these difficulties. | CO4 | 20 |
| (OR) | | | | |
| 8. | a. | Designing a circuit for the IoT component is not important for the product production. Find out the feasibility of the statement and defend your answer related to the above statement. | CO4 | 15 |
|  | b. | List out the designing methodologies for IoT kit manufacturing . | CO1 | 5 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. |  | Consider the following details:  Logistics company want to track the vehicles are associated with the company. This company is implementing vehicle tracking system with IoT device.  Explain the design issues related to connected vehicles implementation for tracking. Also discuss smart monitoring advantages on these connected vehicles. | CO5 | 20 |