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

G:\logo and QP Template\logo 3 Feb 2018 final.tif

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

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| **Code :** | **16EC2002** | **Duration :** | **3hrs** |
| **Sub. Name :** | **INTERNET OF THINGS FOR COMMUNICATION ENGINEERING** | **Max. marks :** | **100** |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Q.No** | **Sub**  **Div.** | **Questions** | **Course Outcome** | **Marks** |
| 1. | a. | Illustrate with a neat sketch and explain in detail about the layers of IoT. | CO1 | 10 |
| b. | Explain the protocols and related concepts of WoT with a neat sketch of the architecture. | CO2 | 10 |
| (OR) | | | | |
| 2. |  | Explain about the M2M communication with the architecture and appropriate diagrams. | CO2 | 20 |
|  |  |  |  |  |
| 3. |  | Explain about the remote monitoring and sensing application of IoT with relevant diagrams. | CO3 | 20 |
| (OR) | | | | |
| 4. |  | Explain the performance measurement parameters and rules for analyzing IoT systems. | CO1 | 20 |
|  |  |  |  |  |
| 5. |  | With a neat sketch of the IoT protocol architecture, evaluate the functions of each protocol. | CO1 | 20 |
| (OR) | | | | |
| 6. |  | Explain the IoT communication patterns with necessary diagrams. | CO2 | 20 |
|  |  |  |  |  |
| 7. | a. | Summarize IP addressing and the various classes and range of IP address. | CO2 | 10 |
| b. | Explain the IP datagram with a neat sketch. | CO2 | 10 |
| (OR) | | | | |
| 8. |  | Interpret and explain about the layer to layer OSI model data transfer with reference to a transmitter and receiver with necessary diagrams. | CO1 | 20 |
|  |  |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. |  | Explain the applications of IoT in the medical field with necessary sketches, comparing how the generation of data can be used for immediate and long time applications compare any two devices on the basis of data generation. | CO3 | 20 |