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



**End Semester Examination – Nov/Dec– 2017**

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|  |  |  |  |
| **Code :** | **16EC2003** | **Duration :** | **3hrs** |
| **Sub. Name :** | **RECENT TRENDS IN WIRELESS COMMUNICATION** | **Max. marks :** | **100** |

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

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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | Define Wireless Sensor Networks. | CO1 | 5 |
| b. | Illustrate the functional architecture of sensor networks. | CO1 | 15 |
| (OR) | | | | |
| 2. | a. | What is medium access? | CO1 | 5 |
| b. | Give a brief account of Berkely mote and smart dust. | CO1 | 15 |
|  |  |  |  |  |
| 3. | a. | Suggest a suitable network for Animal Habitat monitoring. | CO1 | 10 |
|  | b. | Name the different Routing Approaches. | CO1 | 10 |
| (OR) | | | | |
| 4. | a. | Illustrate the application of IoT in a shopping scenario. | CO2 | 10 |
|  | b. | Give a brief account on Smart Santander project. | CO2 | 10 |
|  |  |  |  |  |
| 5. | a. | Explain Ubiquitous Computing. | CO2 | 5 |
|  | b. | Investigate the key Internet of Things enablers for the success of IoT. | CO2 | 15 |
| (OR) | | | | |
| 6. | a. | State IoT vision. | CO2 | 5 |
|  | b. | Comment on Big data stores and decision support tools in IoT. | CO2 | 15 |
|  |  |  |  |  |
| 7. | a. | Summarize the spectrum facts that motivated Cognitive Radio Networks. | CO3 | 5 |
|  | b. | Illustrate Hydrodyne Architecture of SDR. | CO3 | 15 |
| (OR) | | | | |
| 8. | a. | Create a SDR model using GNU Radio. | CO3 | 5 |
|  | b. | Witha suitable diagram explain Cognitive Life Cycle. | CO3 | 15 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. |  | Explain the three dynamic spectrum sharing paradigms. | CO3 | 20 |

ALL THE BEST