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

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

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| **Code :** | **14EC2039** | **Duration :** | **3hrs** |
| **Sub. Name :** | **MOBILE COMPUTING** | **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. | Explain the mobile computing architecture using a neat sketch | CO1 | 10 |
| b. | Compare the evolution of mobile computing from 2G to 5G in all respects | CO1 | 10 |
| (OR) | | | | |
| 2. | a. | Narrate the function of CSMA and ALOHA protocols in detail | CO2 | 15 |
| b. | Brief the mobility management strategy of networks | CO2 | 5 |
|  |  |  |  |  |
| 3. | a. | Assess various mobile computing security threats and solutions | CO1 | 15 |
|  | b. | Distinguish between Wi-Fi and wireless sniffing | CO1 | 5 |
| (OR) | | | | |
| 4. | a. | Evaluate the working of time division and frequency division duplexing schemes in TDMA systems | CO2 | 10 |
|  | b. | Brief the concept of data synchronization and dissemination | CO2 | 10 |
|  |  |  |  |  |
| 5. | a. | Assess the structure of IS-95 CDMA reverse channel and appraise each of its components | CO2 | 15 |
|  | b. | List out the applications of mobile computing | CO2 | 5 |
| (OR) | | | | |
| 6. | a. | Explain the forward and reverse channel operations of WCDMA | CO3 | 10 |
|  | b. | Brief the features of smart phones and digital music players | CO3 | 10 |
|  |  |  |  |  |
| 7. | a. | Explain the IEEE 802.16e WiMax network structure in detail | CO3 | 10 |
|  | b. | Assess the performance of HSPA and its evolution | CO3 | 10 |
| (OR) | | | | |
| 8. | a. | Assess the 3G high speed OFDM packet access scheme | CO3 | 15 |
|  | b. | Brief the tunneling and encapsulation operations of mobile IP | CO3 | 5 |
|  | | **Compulsory**: |  |  |
| 9. | a. | Elaborate the architecture of J2EE | CO3 | 10 |
|  | b. | Prepare an XML document to store five user details in the contacts folder of a mobile smart phone | CO3 | 10 |