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



**End Semester Examination – Nov / Dec – 2019**

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|  |  |  |  |
| **Code :** | **17CS2051** | **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. |  | Illustrate the various factors that are considered to design the architecture of Mobile Computing. Also narrate the different influence metric used. | CO1 | 20 |
| **(OR)** | | | | |
| 2. | a. | Draw and brief the data flow in an ICAP environment. | CO2 | 10 |
| b. | Brief the challenges with Client Context Manager (CCM). |  | 10 |
|  |  |  | CO1 |  |
| 3. | a. | Describe the layered functionality of protocol stack in Bluetooth architecture. |  | 15 |
| b. | Differentiate Active RFID tags and Passive RFID tags in RFID technology. | CO6 | 5 |
| **(OR)** | | | | |
| 4. |  | Explain the working principles of Mobile IP and illustrate the tunneling operations with IP header Encapsulation. | CO5 | 20 |
|  |  |  |  |  |
| 5. |  | Elaborate the system architecture of GSM network with neat diagram. | CO4 | 20 |
| **(OR)** | | | | |
| 6. | a. | Illustrate the operation of Frequency Hopping Spread Spectrum and explain the working principles of CDMA Technology. | CO4 | 15 |
| b. | Mention some of the limitations of GPRS. | CO4 | 5 |
|  |  |  |  |  |
| 7. |  | Describe the architecture of WAP protocol stack and elloborate the fuctionality of different layers. | CO4 | 20 |
| **(OR)** | | | | |
| 8. | a. | Elloborate the architecture of Wireless LAN in infrastructure and Wireless LAN in Adhoc Mode. | CO2 | 10 |
| b. | Differentiate between Mobile Adhoc Network and Sensor Network in Wireless LAN. | CO2 | 10 |
|  | | **Compulsory**: |  |  |
| 9. | a. | Describe the architecture and event handling methods of Palm OS. | CO6 | 15 |
| b. | Explain different types of attacks in wireless networks. | CO5 | 5 |

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