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



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

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| **Code :** | **14CS2064** | **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. | Write brief notes on the following  i. Three tier architecture for Mobile computing  ii. Client context manager  iii. CC/PP standard | CO1 | 15 |
| b. | Describe FDMA, TDMA, CDMA and SDMA with their application areas and examples. | CO1 | 5 |
| (OR) | | | | |
| 2. | a. | You have a communication application that uses sockets in IPv4, What are the steps you need to follow to port this application from IPv4 to IPv6. | CO3 | 5 |
| b. | Describe the GSM architecture with its constituent elements. | CO1 | 15 |
|  |  |  |  |  |
| 3. | a. | Elucidate the architecture of SMS. | CO1 | 5 |
|  | b. | Explain each of the following in the context of GPRS.  i. QoS parameters. ii.Channel Coding. iii. SGSN and GGSN. | CO2 | 15 |
| (OR) | | | | |
| 4. | a. | Explain the WAP protocol stack while enumerating the functions of different layers. | CO1 | 10 |
|  | b. | Describe each of the following in brief  i. IEEE 802.11 Stack. ii. Mobility in Wireless LAN. | CO1 | 10 |
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| 5. |  | Write short notes on  i. WLAN Security. ii. HiperLAN family of standards. iii. HiperLANstack relationship with OSI protocol stack. | CO1, CO2 | 10+5+5 |
| (OR) | | | | |
| 6. | a. | Explain the protocol stack of SS7 signaling system. | CO1 | 10 |
|  | b. | List out the advantages and disadvantages of using private network against Virtual private network. | CO2 | 10 |
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| 7. | a. | Discuss the design constraints of the applications targeted for handheld devices. | CO2 | 10 |
|  | b. | Describe the features of symmetric key and public key encryption. | CO2 | 10 |
| (OR) | | | | |
| 8. |  | Describe each of the following in brief.  i. GUI handling in Palm. ii. Telephony interfaces available in Palm OS. | CO1 | 10+10 |
|  | | **Compulsory**: |  |  |
| 9. |  | Explain the following transitions with respect to Next generation networks.  i. IT and CT into ICT. ii. Narrowband to Broadband. iii. Circuit Switching to Packet Switching. | CO3 | 5+10+5 |

ALL THE BEST