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

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**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

**End Semester Examination – Nov/Dec - 2016**

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|  |  | **Semester :** | **2016-17 ODD** |
| **Code :** | **12EC244** | **Duration :** | **3 hrs** |
| **Sub. Name :** | **MOBILE COMMUNICATION** | **Max. marks :** | **100** |

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| **Q. No** | **Questions** | **Marks** |
| **PART-A(10X1=10 MARKS)** | | |
| 1. | Name the type of antenna used by base stations for radio coverage of a valley? | (1) |
| 2. | What are the frequency dependent effects that influence radio propagation? | (1) |
| 3. | Name the modulation scheme used in DAB. | (1) |
| 4. | Name the duplexing mechanism used in DECT. | (1) |
| 5. | Distinguish between Infra red and Radio transmission. | (1) |
| 6. | What is BSS in IEEE 802.11? | (1) |
| 7. | What is COA? | (1) |
| 8. | What is the main issue in MANET? | (1) |
| 9. | Why TCP guesses are quite often wrong in wireless and mobile networks? | (1) |
| 10. | Define HTTP. | (1) |

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| **PART B(5 X 3= 15 MARKS)** | | |
| 11 | What are the three signal propagation ranges? | (3) |
| 12 | Name the three subsystems of GSM. | (3) |
| 13 | Give a short note on Bluetooth. | (3) |
| 14 | What is the purpose of DHCP? | (3) |
| 15 | Write short notes about the CODA. | (3) |

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| **PART C(5 X 15= 75 MARKS)** | | | |
| 16. |  | Explain about Space, Frequency, Code and Time division multiplexing in detail. | (15) |
| (OR) | | | |
| 17. |  | What is spread spectrum? Explain about the Frequency Hopping techniques with the frequency spectrum. | (15) |
| 18. |  | Illustrate the GSM system architecture in detail. | (15) |
| (OR) | | | |
| 19. |  | Describe about GPRS architecture and interfaces. | (15) |
| 20. |  | With necessary figure illustrate the IEEE 802.11 protocol architecture and bridging. | (15) |
| (OR) | | | |
| 21. |  | With necessary figures explain Digital Audio Broadcasting. | (15) |
| 22. |  | Discuss about WATM reference model for several access scenarios. | (15) |
| (OR) | | | |
| 23. |  | What are the requirements of Mobile IP? How packets are delivered to the mobile node in a foreign network? | (15) |
| 24. |  | Compare indirect TCP, Snooping TCP and mobile TCP. | (15) |
| (OR) | | | |
| 25. |  | Explain the components and interface of the WAP 1.x architecture. | (15) |

ALL THE BEST