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**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

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

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

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

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|  |  | **Semester :** | **2016-17 ODD** |
| **Code :** | **12EE248** | **Duration :** | **3 hrs** |
| **Sub. Name :** | **Computer Communication** | **Max. marks :** | **100** |

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| **Q. No.** | **Questions** | **Marks** |
| **PART-A(10X1=10 MARKS)** | | |
| 1. | What is tear down phase? | (1) |
| 2. | Write one advantage of packet switching. | (1) |
| 3. | List the various LAN topologies. | (1) |
| 4. | The length of the burst is measured from the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. | (1) |
| 5. | The Hamming weight of 110001111101 is \_\_\_\_\_\_\_\_\_\_\_\_\_. | (1) |
| 6. | In IEEE 802 data link layer (OSI layer 2) is divided into \_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_. | (1) |
| 7. | What are the fundamental parts of IP address? | (1) |
| 8. | Define congestion. | (1) |
| 9. | The size of ATM cell is \_\_\_\_\_\_\_\_\_\_\_\_\_. | (1) |
| 10. | Write some applications of VSAT. | (1) |

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| **PART B(5 X 3= 15 MARKS)** | | |
| 11 | Compare and contrast pure and slotted ALOHA. | (3) |
| 12 | State Little’s law. | (3) |
| 13 | Why we need parity? | (3) |
| 14 | Find the network and host address of 192.168.100.70/26. | (3) |
| 15 | Draw the IPV4 header format. | (3) |

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| **PART C(5 X 15= 75 MARKS)** | | | |
| 16. |  | Why we need layered protocols? Explain the functions of various layers of OSI reference model. | (15) |
| (OR) | | | |
| 17. |  | Explain various switching techniques with neat diagram. | (15) |
| 18. |  | Explain various LAN access techniques. | (15) |
| (OR) | | | |
| 19. |  | List and explain static routing algorithms with suitable diagram. | (15) |
| 20. |  | Why we need error correction and detection? Explain the techniques used. | (15) |
| (OR) | | | |
| 21. |  | Name the two types of data communication techniques and explain them. | (15) |
| 22. |  | List the reasons for congestion and also explain the ways by which we can avoid it. | (15) |
| (OR) | | | |
| 23. | a. | Draw the transmission structure of ISDN. | (5) |
| b. | Illustrate the concept of tunneling. | (10) |
| 24. |  | Explain VSAT networks. | (15) |
| (OR) | | | |
| 25. |  | Explain the layered architecture of TCP/IP with neat diagram. | (15) |

ALL THE BEST