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

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

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| **Code :** | **14EC2025** | **Duration :** | **3hrs** |
| **Sub. Name :** | **COMPUTER COMMUNICATION** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. |  | Draw the architecture of ISO/OSI model and explain the functions of each layer. | CO1 | 20 |
| (OR) | | | | |
| 2. | a. | Narrate the switching methods and compare their performance. | CO1 | 10 |
| b. | Discuss the different types of transmission media used in computer Communication. | CO1 | 10 |
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| 3. | a. | Describe the different types of flow control in detail. | CO2 | 10 |
| b. | Enumerate the features and frame format in IEEE 802.3 Ethernet. | CO2 | 10 |
| (OR) | | | | |
| 4. | a. | Discuss access method and frame format of IEEE802.11 standard | CO2 | 10 |
| b. | List the different types of stations in HDLC. Discuss in detail about bit stuffing and bit unstuffing process. | CO2 | 10 |
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| 5. | a. | Discuss the features of Internet Protocol datagram (IPv4) with a frame format. | CO2 | 10 |
| b. | Draw the architecture of ATM networks and explain ATM header format. | CO2 | 10 |
| (OR) | | | | |
| 6. | a. | Discuss the concept of subneting with an example. | CO3 | 8 |
| b. | Identify the class,netid,hostid and network address for the follwing IP address.   1. 199.39.5.4 2. 89.95.23.54 3. 234.48.5.3 4. 101.5.3.8 5. 69.32.4.5 | CO3 | 12 |
| 7. | a. | Obtain the routing table of any one network using dijikstra algorithm. | CO3 | 12 |
| b. | Describe the techniques used to improve the QoS of computer networks. | CO3 | 8 |
| (OR) | | | | |
| 8. | a. | Predict the routing table using distance vector routing algorithm with an example. | CO3 | 12 |
| b. | Explicate the principle of User Datagram Protocol (UDP). | CO3 | 8 |
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|  | | **Compulsory**: |  |  |
| 9. | a. | Narrate the differet catogries of congestion control in detail. | CO3 | 10 |
| b. | Describe the entire e-mail system and narrate the features of SMTP protocol. | CO3 | 10 |