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. | a. | Differentiate guided and unguided media,and explain in detail about the guided transmission media. | CO1 | 10 |
|  | b | Narrate the switching methods and compare their performance. | CO1 | 10 |
| (OR) | | | | |  | What is bit stuffing in HDLC? Explain the frames in HDLC |
| 2. |  | Sketch the ISO/ OSI reference Model. Also discuss the important functions of each layer. | CO1 | 20 |
|  |  |  |  |  |
| 3. | a. | Construct sliding window concept (of size 8) with an example. | CO2 | 10 |
| b. | Enumerate the features and frame format in IEEE 802.3 Ethernet. | CO2 | 10 |
| (OR) | | | | |
| 4. | a. | Name the different types of ARQ in error control. Explain in detail. | CO2 | 10 |
| b. | Explain the principle of CSMA/CA access method used in IEEE 802.11. | CO2 | 10 |
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| 5. | a. | Discuss the ATM header format in detail and draw the architecture of ATM network. | CO2 | 10 |
| b. | Draw the format of Internet protocol (IPv6). | CO2 | 10 |
| (OR) | | | | |
| 6. | a. | Discuss the concept of Internet protocol (IPv4) and list its features. | CO3 | 8 |
| b. | Identify the class,netid,hostid and network address for the following IP address   1. 299.39.5.4 2. 189.95.23.54 3. 134.48.5.3 4. 10.5.3.8 5. 69.32.4.5 | CO3 | 12 |
| 7. | a. | Obtain the routing table of any network using dijikstra algorithm. | CO3 | 12 |
| b. | Describe the techniques to improve the QoS in 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 SCTP . | CO3 | 8 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. | a. | Narrate the different categories of congestion control mechanism. | CO3 | 10 |
| b. | Describe the entire e-mail system and narrate the features of SMTP protocol. | CO3 | 10 |