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



**End Semester Examination – Nov / Dec – 2019**

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| **Code :** | **17EC2031** | **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. |  | Interpret the OSI reference model and explain the layer to layer data transfer with reference to a transmitter and receiver with necessary diagrams. | CO3 | 20 | |
| **(OR)** | | | |
| 2. |  | Reveal your perception about communication networks. Summarize the Network categories and Network Topologies with necessary diagrams in detail. | CO4 | 20 | | | |
|  |  |  |  |  | | | |
| 3. |  | Explain the frame formats of HDLC in detail with necessary diagrams. Write your perception about bit stuffing in detail with necessary diagrams. | CO2 | 20 | | | |
| **(OR)** | | | |
| 4. |  | Infer the error detection and error correction methodologies in detail with diagrams. | CO2 | 20 | | | |
|  |  |  |  |  | | | |
| 5. |  | Appraise on the IEEE 802 project. Explain the protocol specifications, characteristics, frame formats and classification of IEEE 802.3 with neat diagrams. | CO6 | 20 | | | |
| **(OR)** | | | |
| 6. |  | Explain your perception on SONET. Explain the architecture, layers, device-layer relationship and frame formats of SONET system in detail with neat sketches. | CO3 | 20 | | | |
|  |  |  |  |  | | | |
| 7. | a. | Classify IP addressing techniques and discuss the various classes and range of IP address. | CO1 | 10 | | | |
| b. | Infer on subnetting and explain in detail with necessary diagrams. | CO1 | 10 | | | |
| **(OR)** | | | |
| 8. | a. | Appraise on the IP datagram and explain the respective frames in detail with neat diagrams. | CO6 | 10 | | | |
| b. | Appraise on the TCP segment and explain the respective frames in detail with neat diagrams. | CO6 | 10 | | | |
|  | | **Compulsory:** |  | |  | |
| 9. |  | Explain the concepts, protocols and techniques of WWW and Cryptography in detail with necessary sketches. | CO5 | 20 | | | |