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



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

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| **Code :** | **17CA2005** | **Duration :** | **3 Hrs.** |
| **Sub. Name :** | **PRINCIPLES OF DATA 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. |  | List and explain the different types of modulation through suitable diagrams. | CO1 | 20 |
| **(OR)** | | | | |
| 2. |  | Discuss the methods associated with Digital Pulse Modulation with suitable example. | CO1 | 20 |
|  |  |  |  |  |
| 3. | a. | Write a note on Orthogonal signals and mention their use. | CO2 | 10 |
| b. | Write a note on Discrete messages and Information Content. | CO1 | 10 |
| **(OR)** | | | | |
| 4. |  | Elaborate the different types of communication that can take place in the presence and absence of noise. | CO2 | 20 |
|  |  |  |  |  |
| 5. | a. | Explain the concepts and terminology behind analog and digital transmission. | CO4 | 10 |
| b. | Distinguish between synchronous and asynchronous transmission. | CO3 | 10 |
| **(OR)** | | | | |
| 6. |  | List and explain the most significant transmission impairments. | CO3 | 20 |
|  |  |  |  |  |
| 7. |  | Elaborate the encoding techniques in Digital Data and Analog Signals. | CO5 | 20 |
| **(OR)** | | | | |
| 8. |  | Discuss the encoding techniques in Digital Data and Digital Signals. | CO5 | 20 |
|  | | **Compulsory**: |  |  |
| 9. | a. | Write short notes on High Level Data Link Control. | CO6 | 10 |
| b. | Elaborate the concept of Flow Control in detail through suitable diagrams. | CO6 | 10 |