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



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

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| **Code :** | **17CA2002** | **Duration :** | **3hrs** |
| **Sub. Name :** | **INTRODUCTION TO INFORMATION TECHNOLOGY** | **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. | Discuss the multipliers used for expressing data rates. | CO1 | 7 |
| b. | Explain the multipliers used for expressing storage capacities. | CO1 | 7 |
| c. | List and explain the advantages of digital technology. | CO1 | 6 |
| (OR) | | | | |
| 2. | a. | Convert the following binary number to decimal number.  10101010.1111(2)🡪 \_\_\_\_\_\_\_\_\_\_\_\_(10) | CO1 | 10 |
| b. | Convert the following decimal number to binary number.  72.4375(10)🡪 \_\_\_\_\_\_\_\_\_\_\_\_\_(2) | CO1 | 10 |
|  |  |  |  |  |
| 3. | a. | Briefly discuss the factors that affect the performance of a computer. | CO1 | 10 |
| b. | Elaborate the storage technologies in detail with suitable example. | CO4 | 10 |
| (OR) | | | | |
| 4. | a. | Explain the different types of logic gates available and their functions through suitable tables. | CO1 | 10 |
| b. | Discuss the three step process of digitization through suitable example. | CO2 | 10 |
|  |  |  |  |  |
| 5. | a. | Discuss the analog and digital modulation techniques through necessary diagrams. | CO3 | 10 |
| b. | List and explain any 5 radio frequency bands and their applications in detail. | CO3 | 10 |
| (OR) | | | | |
| 6. | a. | Discuss the different types of copper cable used for transmission. | CO3 | 10 |
| b. | Briefly discuss the structure of a fiber optic cable. | CO3 | 10 |
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| 7. | a. | Discuss the alternatives of Wide Area Networks through examples. | CO4 | 10 |
| b. | Explain the Wide Area Network access through suitable example. | CO4 | 10 |
| (OR) | | | | |
| 8. | a. | Discuss the different categories of network management activities. | CO4 | 10 |
| b. | Justify the need for protocols. | CO4 | 5 |
| c. | List the technological systems and components that constitute the Internet. | CO4 | 5 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. | a. | Discuss how Cellular Technology forms an important role in today’s life. | CO5 | 10 |
| b. | Explain the challenges faced by Internet Telephony. | CO5 | 10 |