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

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

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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. | Cellular Telephony can be considered as an example for Information Technology system – Justify with necessary diagrams. | CO1 | 10 |
| b. | Elaborate the different categories of storing bits. | CO1 | 10 |
| (OR) | | | | |
| 2. | a. | Convert the following binary number to decimal number.  101010.1111(2)🡪 \_\_\_\_\_\_\_\_\_\_\_\_(10) | CO1 | 10 |
| b. | Convert the following decimal number to binary number.  32.4375(10)🡪 \_\_\_\_\_\_\_\_\_\_\_\_\_(2) | CO1 | 10 |
|  |  |  |  |  |
| 3. |  | Explain the different types of logic gates available through suitable tables. | CO1 | 20 |
| (OR) | | | | |
| 4. |  | Discuss the three step process of digitization through suitable example. | CO2 | 20 |
|  |  |  |  |  |
| 5. | a. | Elaborate the structure of Fiber Optic cables through suitable diagrams. | CO3 | 10 |
| b. | Explain the different types of Fiber Optic cables. | CO3 | 10 |
| (OR) | | | | |
| 6. | a. | Discuss the pros and cons of Fiber Optic Technology. | CO3 | 10 |
| b. | List and explain the different types of copper cables used for transmission. | CO3 | 10 |
|  |  |  |  |  |
| 7. |  | Discuss the possible types of attacks on Information System devices. | CO4 | 20 |
| (OR) | | | | |
| 8. |  | Explain the different layers of TCP/IP with a neat diagram. | CO3 | 20 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. | a. | Elaborate the different methods of multiplexing signals. | CO3 | 10 |
| b. | Discuss the challenges faced by Internet Telephony. | CO4 | 10 |