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



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

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| **Code :** | **17CS1001** | **Duration :** | **3hrs** |
| **Sub. Name :** | **FUNDAMENTALS OF COMPUTING AND PROGRAMMING** | **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. | Explain about the different types of computer. | CO1 | 10 |
| b. | Discuss about the internet and its type. | CO1 | 10 |
| **(OR)** | | | | |
| 2. |  | Convert the following:   1. (1011)2= (?)10 2. (28)10=(?)2 3. (47)8= (?)10 4. (101101)2=(?)8 5. (11010110)2= (?)16 | CO1 | 20 |
|  |  |  |  |  |
| 3. |  | Elaborate on various types of selection statements in detail with suitable example. | CO2 | 20 |
| **(OR)** | | | | |
| 4. | a. | Develop an algorithm and C program to find the factorial of n number using for loop. | CO3 | 10 |
| b. | Construct a C program to find the sum of n natural numbers using while loop. | CO2 | 10 |
|  |  |  |  |  |
| 5. |  | Elaborate on string manipulation functions with suitable examples. | CO5 | 20 |
| **(OR)** | | | | |
| 6. |  | Discuss about the array in detail. | CO5 | 20 |
|  |  |  |  |  |
| 7. |  | Give an outline about the user defined function in detail. | CO5 | 20 |
| **(OR)** | | | | |
| 8. |  | Construct an algorithm and C program to find the NCR values using function. | CO3 | 20 |
|  | | **Compulsory**: |  |  |
| 9. | a. | Differentiate between structure and union. | CO6 | 5 |
| b. | Explain about the structure with suitable example. | CO6 | 15 |