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



**End Semester Examination – Nov/Dec - 2017**

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| **Code :** | **16CS2001** | **Duration :** | **3hrs** |
| **Sub. Name :** | **ESSENTIALS OF 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. | Discuss the basic computer organization. | CO1 | 16 |
| b. | Classify computers. | CO1 | 4 |
| (OR) | | | | |
| 2. | a. | Distinguish the careers in information technology. | CO1 | 10 |
| b. | Design a flowchart to check whether the value of ‘A’ is greater than the value of ‘B’. | CO2 | 10 |
|  |  |  |  |  |
| 3. | a. | Elucidate control structures in C. | CO1 | 15 |
|  | b. | Explain the types of operators in C. | CO1 | 5 |
| (OR) | | | | |
| 4. | a. | Write a program to find the sum of three numbers given as the input by the user. | CO2 | 10 |
|  | b. | Explain about goto statement in C with an example. | CO2 | 10 |
|  |  |  |  |  |
| 5. | a. | Elucidate the four types of functions with suitable example. | C03 | 15 |
|  | b. | Write a program to print the series of Odd numbers from 1 to 100. | CO1 | 5 |
| (OR) | | | | |
| 6. | a. | Distinguish while and do-while loop with proper example. | CO1 | 10 |
|  | b. | Discuss for loop with suitable example. | CO2 | 10 |
|  |  |  |  |  |
| 7. | a. | List any four string function with a brief coding. | CO2 | 15 |
|  | b. | Write a short node on enum. | CO1 | 5 |
| (OR) | | | | |
| 8. | a. | Write a C program to swap two integer values. | CO3 | 10 |
|  | b. | Describe the various storage classes available in C. | CO1 | 10 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. | a. | Write a program to accept the records of book structure(ISBN, Title and Author) to store and print the book details in the central library of an institution. | CO3 | 10 |
|  | b. | Discuss the various steps involved in software development process. | CO1 | 10 |

ALL THE BEST