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

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

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| **Code :** | **14CS1001** | **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. | Convert (B79)16  to octal. | CO1 | 5 |
| b. | Convert (174)8 to Binary. | CO1 | 5 |
| c. | Convert (754)10 to Hexadecimal. | CO1 | 5 |
| d. | Describe any two applications of computers. | CO2 | 5 |
| (OR) | | | | |
| 2. | a. | Explain the classification of computers in detail. | CO2 | 12 |
| b. | Describe the characteristics of computers. | CO2 | 8 |
|  |  |  |  |  |
| 3. | a. | Outline the structure of a C program with its essential sections. | CO1 | 10 |
| b. | Draw any five flow chart symbols and explain their functionality. | CO2 | 10 |
| (OR) | | | | |
| 4. | a. | Explain the arithmetic and relational operators in C. | CO2 | 8 |
| b. | Write a C program to find the average temperature recorded in a city for a week. | CO2 | 12 |
|  |  |  |  |  |
| 5. | a. | Write a C program to find the factorial of a number. | CO3 | 10 |
| b. | Differentiate while and do… while with an example. | CO3 | 10 |
| (OR) | | | | |
| 6. | a. | Differentiate call by value and call by reference with example. | CO3 | 10 |
| b. | Explain recursion with an example. | CO3 | 10 |
|  |  |  |  |  |
| 7. |  | Write any five string handling functions with an example for each. | CO3 | 20 |
| (OR) | | | | |
| 8. | a. | Write a program to reverse the elements of an array. | CO3 | 10 |
| b. | Explain the usage of local and global variables in C programs. | CO3 | 10 |
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|  |  | **Compulsory:** |  |  |
| 9. |  | Explain the applications of Internet. | CO4 | 20 |