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



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

**End Semester Examination – April/May– 2017**

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| **Code :** | **14CS1001** | **Duration :** | **3 hrs** |
| **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 (A46)16  to octal. | CO1 | 5 |
| b. | Convert (245)8 to Binary. | CO1 | 5 |
| c. | Convert (632)10 to Hexadecimal. | CO1 | 5 |
| d. | Write 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 logical and assignment operators in C. | CO2 | 8 |
|  | b. | Write a C program to find the largest among 3 numbers. | CO2 | 12 |
| 5. |  | Explain the loop statements in C with suitable example for each. | CO3 | 20 |
| (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. | Describe one dimensional array with an example. | CO3 | 10 |
|  | b. | Explain the usage of local and global variables in C programs. | CO3 | 10 |
|  |  | **Compulsory:** |  |  |
| 9. |  | Explain the applications of Internet. | CO4 | 20 |

ALL THE BEST