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



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

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

**Supplementary Examination – June – 2017**

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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 (452)8 to Hexadecimal. | CO1 | 5 |
| b. | Convert (A65)16 to binary. | CO1 | 5 |
| c. | Convert (134)10 to binary. | CO1 | 5 |
| d. | State the rules for naming a variable in C language. | CO2 | 5 |
| (OR) | | | | |
| 2. | a. | Describe the basic computer organization with a suitable diagram. | CO2 | 12 |
| b. | Explain the data types in C language. | CO2 | 8 |
| 3. | a. | Write an algorithm to find the area of a circle. | CO1 | 8 |
|  | b. | Explain the arithmetic and relational operators with suitable examples. | CO2 | 12 |
| (OR) | | | | |
| 4. |  | Explain the types of if statements with suitable examples for each in detail. | CO2 | 20 |
| 5. |  | Classify functions with respect to arguments and return values in detail with examples. | CO3 | 20 |
| (OR) | | | | |
| 6. | a. | Describe the storage classes in C. | CO3 | 15 |
|  | b. | Write a program to demonstrate bitwise operators. | CO3 | 5 |
| 7. | a. | Write a program to swap two numbers using call by reference mechanism. | CO3 | 10 |
|  | b. | Explain 2D arrays with an example. | CO3 | 10 |
| (OR) | | | | |
| 8. | a. | Write a program to generate the Fibonacci series for n terms. | CO3 | 10 |
|  | b. | Differentiate break and continue with an example. | CO2 | 10 |
|  |  | **Compulsory:** |  |  |
| 9. |  | Explain the role of Information Technology in daily life. | CO4 | 20 |

ALL THE BEST