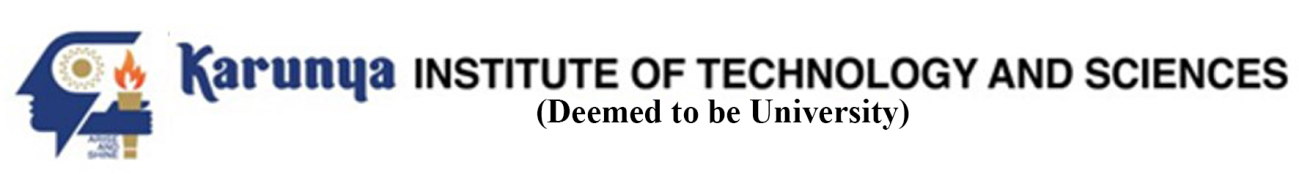
Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_



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

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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. | Discuss about internet and types of internet connections. | CO1 | 10 |
| b. | Explain in detail about the basic computer organization with a neat diagram. | CO1 | 10 |
| (OR) | | | | |
| 2. |  | Convert the following:  a. (134)10=(?)2  b. (1101)2=(?)10  c. (48)10=(?)8  d. Define operating systems. Give examples.  e. Compare the generations of Computers. | CO1 | 20 |
| 3. | a. | Describe about the different data types in c programming. | CO6 | 10 |
| b. | Classify the various operators in c programming with suitable example program. | CO3 | 10 |
| (OR) | | | | |
| 4. |  | Write an algorithm, c program and code for calculating the distance travelled by providing speed and time as input. | CO2 | 20 |
| 5. |  | Assign s1=”hello”, s2=”world” . Develop a c program to do the following string operation.   1. Find the length of the string 2. Copy s2 into s1 3. Concatenate s1 and s2 4. Compare two string | CO5 | 20 |
| (OR) | | | | |
| 6. |  | Describe the different forms of selection statementwith suitable examples. | CO4 | 20 |
| 7. | a. | Briefly describe about the storage classes | CO1 | 10 |
| b. | Define Recursion. Construct a c program for factorial of a number using recursion. | CO3 | 10 |
| (OR) | | | | |
| 8. |  | Explain the following types of functions with suitable example program.  a. Call by value  b. Function with Input and one Output  c. Void Functions | CO5 | 20 |
|  | | **Compulsory**: |  |  |
| 9. | a. | Construct a c program for swapping two numbers using pointers. | CO2 | 10 |
| b. | Construct a c program for storing and retrieving n number of student details (regno, name and fees) using structures. | CO2 | 10 |