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 :** | **16CA2004** | **Duration :** | **3hrs** |
| **Sub. Name :** | **PROGRAMMING IN C** | **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. | Is variable float si-interest; is valid variable name or not. | CO1 | 1 |
| b. | C Language has been developed at \_\_\_\_\_\_\_\_\_\_\_\_ Labs, USA | CO1 | 1 |
| c. | Write a C program to find the area of circle. | CO3 | 2 |
| d. | Determine the hierarchy of operations and evaluate the following expression, assume that i is an integer variable; i=2\*3/4+4/4+8-2+5/8 | CO2 | 2 |
| e. | Explain the structure of C program with suitable example. | CO2 | 14 |
| (OR) | | | | |
| 2. | a. | \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is an input function. | CO1 | 1 |
| b. | A simple statement is terminated by a \_\_\_\_\_\_\_\_ | CO1 | 1 |
| c. | Define algorithm. Write an algorithm to add two integer numbers. | CO1 | 2 |
| d. | What is the output of i) 6&3 ii) 8^4 | CO3 | 2 |
| e. | Define Variable? Write down the rules for constructing variables. | CO2 | 7 |
| f. | Explain about various data types available in C language. | CO2 | 7 |
| 3. | a. | \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is an assignment operator. | CO1 | 1 |
|  | b. | \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is an example for multiway decision making statements. | CO2 | 1 |
| c. | Write a c program to check whether the person is eligible to vote or not. | CO3 | 2 |
| d. | Write about switch statement with suitable sysntax. | CO2 | 2 |
| e. | With suitable examples explain the various types of (**if** ) selection statements. | CO3 | 14 |
| (OR) | | | | |
| 4. | a. | Iteration statements are known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_ statements. | CO1 | 1 |
|  | b. | A \_\_\_\_\_\_\_\_\_\_ statement takes the execution control out of the loop. | CO2 | 1 |
| c. | Write the difference between while and do …. While loop. | CO2 | 2 |
| d. | Write a C program to print summation of series 1+2+3+4 ……+10 | CO3 | 2 |
| e. | Explain about entry controlled loop and Exit controlled loop. | CO2 | 10 |
| f. | Write a program to print the Fibonacci series of any given number. | CO3 | 4 |
| 5. | a. | \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is an example of predefined function. | CO1 | 1 |
|  | b. | The parameters available in called function are called as \_\_\_\_\_\_. | CO2 | 1 |
| c. | Write down the uses of function. | CO1 | 2 |
| d. | With suitable syntax explain about function definition. | CO2 | 2 |
| e. | Explain about call by value and call by reference with example. | CO2 | 10 |
| f. | Define pointers. Write notes on pointer notation. | CO1 | 4 |
| (OR) | | | | |
| 6. | a. | Give an example for unsigned int variable. | CO2 | 1 |
|  | b. | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the format specifier for long data type. | CO2 | 1 |
| c. | Tell about recursion. | CO1 | 2 |
| d. | What does the variable’s storage class tells? | CO2 | 2 |
| e. | Explain about vaious storage classes in C. | CO2 | 14 |
| 7. | a. | Is this correct array declaration? inta(25); | CO1 | 1 |
|  | b. | The array intnum[26] has 26 elements (T/F) | CO1 | 1 |
| c. | What are the two types of Array initialization? | CO2 | 2 |
| d. | Write about two dimensional array? | CO1 | 2 |
| e. | Write a program to find the sum of list values stored in an array. | CO3 | 7 |
| f. | Write a program to sort the given number in ascending order. | CO3 | 7 |
| (OR) | | | | |
| 8. | a. | \_\_\_\_\_\_\_\_ operator is used to acccess structure elements. | CO1 | 1 |
|  | b. | \_\_\_\_\_\_\_\_\_\_ character follows the last character of the string. | CO2 | 1 |
| c. | How to declare a structure? | CO2 | 2 |
| d. | Write down the functions used to convert lower case to UPPER CASE and UPPER CASE to lower case. | CO3 | 2 |
| e. | Explain about various string handling functions with suitable example. | CO2 | 14 |
|  | | **Compulsory:** |  |  |
| 9. | a. | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ function is used to open a file. | CO1 | 1 |
|  | b. | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the keyword for enumerated data type. | CO1 | 1 |
| c. | Writedown the various types of operations carried out on a file. | CO3 | 2 |
| d. | Write the use of typedef? | CO2 | 2 |
| e. | Explain the structures with suitable example. | CO2 | 10 |
| f. | List out the various File opening modes available. | CO2 | 4 |

ALL THE BEST