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

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

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| **Code :** | **16CS2003** | **Duration :** | **3hrs** |
| **Sub. Name :** | **FUNDAMENTALS OF C PROGRAMMING** | **Max. marks :** | **100** |

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| **Q. No.** | **Questions** | **Course Outcome** | **Marks** |
| **PART-A(20X1=20 MARKS)** | | | |
| 1. | \_\_\_\_\_\_\_\_\_\_\_\_\_ are reserved predefined words used for some intended purpose. | CO1 | 1 |
| 2. | Pick the invalid identifier from the following  area 2018year tax\_rate june8th | CO1 | 1 |
| 3. | List the different types of constants | CO1 | 1 |
| 4. | Evaluate the expression  20 % 3 = | CO1 | 1 |
| 5. | Compare the getchar and putchar function | CO2 | 1 |
| 6. | Write an input statement in C for the variable radius.  float radius; | CO2 | 1 |
| 7. | A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is defined as a set of statements which are repeatedly executed for certain number of times. | CO2 | 1 |
| 8. | Predict the error in the following program  include<stdio.h>  main( )  {  int a=10;  printf(“%d”,a)  } | CO2 | 1 |
| 9. | A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a self contained block or a sub program segment that carries out some specific well defined task. | CO2 | 1 |
| 10. | The arguments provided in the function call is known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ arguments | CO2 | 1 |
| 11. | A function calling itself repeatedly until some specified condition is known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_ | CO2 | 1 |
| 12. | Predict the output  #include<stdio.h>  main( )  {  int a[5]={10,20,30,40,50};  printf(“%d”,a[4]);  } | CO2 | 1 |
| 13. | The null character in a string is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | CO2 | 1 |
| 14. | The \_\_\_\_\_\_\_\_\_\_ operator is called the address operator which evaluates the address of its operand | CO3 | 1 |
| 15. | Compare the gets and puts function | CO2 | 1 |
| 16. | The string function used to copy a source string into a destination string is \_\_\_\_\_\_\_\_\_\_\_\_\_ | CO2 | 1 |
| 17. | What is the memory size of the following structure?  struct student  {  char name[25];  float marks;  }; | CO3 | 1 |
| 18. | The library function which is used to open a file is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | CO3 | 1 |
| 19. | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a variable that holds the address of another variable | CO3 | 1 |
| 20. | \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the file mode to open a binary file in write mode. | CO3 | 1 |

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| **PART B(10 X 5= 50 MARKS)**  **(Answer any 10 from the following)** | | | |
| 21. | Write notes on the Character Set in C. | CO1 | 5 |
| 22. | Illustrate with examples the data types in C. | CO1 | 5 |
| 23. | Develop a C Program to find the area of a circle . | CO1 | 5 |
| 24. | Outline the various Error Diagnostics in C Programming. | CO1 | 5 |
| 25. | Develop a C Program to display numbers from 1 to 10 using for loop. | CO2 | 5 |
| 26. | Define an Array. Explain the processing of an 1-D array. | CO2 | 5 |
| 27. | Compare break and continue statement with examples. | CO2 | 5 |
| 28. | Write short notes on initialization of strings and reading and writing a string. | CO2 | 5 |
| 29. | Explain any two string functions with examples. | CO2 | 5 |
| 30. | Discuss in detail about pointers with suitable example. | CO3 | 5 |
| 31. | Compare Structure and Union. | CO3 | 5 |
| 32. | Write short notes on the operations on files. | CO3 | 5 |

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| **PART C(2 X 15= 30 MARKS)**  **(Answer any 2 from the following)** | | | | |
| 33. | a. | Discuss in detail the following Operators in C.   1. Arithmetic Operators 2. Relational Operators 3. Logical Operators | CO1 | 10 |
| b. | Develop a C Program to check whether a given number is positive or negative using conditional operator. | CO1 | 5 |
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| 34. | a. | Explain the types of loops statements with examples | CO2 | 10 |
| b. | Develop a C Program to check whether a given number is even or odd using if statements | CO2 | 5 |
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| 35. | a. | Discuss in detail the different types of Arrays with example. | CO3 | 8 |
| b. | Develop a C program to print Employee Details using Structures | CO3 | 7 |