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



**End Semester Examination – Nov/Dec - 2017**

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| **Code :** | **17CS1001** | **Duration :** | **3 hrs** |
| **Sub. Name :** | **FUNDAMENTALS OF COMPUTING AND PROGRAMMING** | **Max. marks :** | **100** |

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| **Q. No.** | **Questions** | **Course Outcome** | **Marks** |
| **PART-A(10X1=10 MARKS)** | | |  |
| 1. | Which memory is used for permanent storage of data and programs? | CO1 | 1 |
| 2. | Name the first calculating device for counting large numbers. | CO1 | 1 |
| 3. | State the difference between = and = = | CO3 | 1 |
| 4. | What is the escape sequence of newline character? | CO3 | 1 |
| 5. | Which is the last character in a string? | CO3 | 1 |
| 6. | Which statement will make a loop to exit immediately? | CO4 | 1 |
| 7. | The arguments that are given at the time of function call is known as \_\_\_\_\_\_\_\_\_. | CO5 | 1 |
| 8. | An enumeration is declared as shown below  enum CARS{alto,omni,swift};  What is the value assigned to enumerator ‘omni’? | CO6 | 1 |
| 9. | What is the keyword used to declare a structure? | CO6 | 1 |
| 10. | Give an example of spreadsheet application. | CO1 | 1 |

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| **PART B(5 X 3= 15 MARKS)** | |  | |
| 11. | Briefly outline hardware of computer with its main components. | CO1 | 3 |
| 12. | Draw the truth table for bitwise OR operator. | CO2 | 3 |
| 13. | Describe any two string handling functions with example. | CO5 | 3 |
| 14. | Briefly explain typedef with an example. | CO6 | 3 |
| 15. | List various types of system softwares with their basic functionality. | CO1 | 3 |

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| **PART C(5 X 15= 75 MARKS)** | | | |  |
| 16. | a. | Classify the types of computers. | CO1 | 7 |
| b. | Convert the following  i. (248)10 = ( )2 ii. (572)8 = ( ) 2  iii. (A42)16  = ( )10 iii. (10101001)2 = ( )16 | CO1 | 8 |
| (OR) | | | |  |
| 17. | a. | Describe the characteristics of Computers. | CO1 | 7 |
| b. | Elaborate on various generations of computers. | CO1 | 8 |
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| 18. | a. | Describe the type of constants in C. | CO3 | 10 |
| b. | Check whether a number is even or odd using conditional operator. | CO2 | 5 |
| (OR) | | | |  |
| 19. | a. | Discuss the structure of C program with essential sections. | CO2 | 8 |
| b. | Draw a flow chart to read three marks as input and calculate sum. | CO2 | 7 |
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| 20. |  | Describe the various iteration/looping statements in C with illustration. | CO4 | 15 |
| (OR) | | | |  |
| 21. | a. | Explain in detail about array. | CO5 | 8 |
| b. | Write a program to add two matrices. | CO5 | 7 |
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| 22. | a. | Discuss recursive functions with example program. | CO5 | 8 |
| b. | Explain pass by value in functions with example. | CO5 | 7 |
| (OR) | | | |  |
| 23. |  | Explain storage classes in C. | CO3 | 15 |
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| 24. |  | Summarize Internet and types of Internet Connections. | CO1 | 15 |
| (OR) | | | |  |
| 25. | a. | Differentiate structure and union. | CO6 | 5 |
| b. | Construct a C Program to display the employee details using structures. | CO6 | 10 |

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