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

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

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| **Code :** | **09CS203/ 12CS203/ CS264** | **Duration :** | **3hrs** |
| **Sub. Name :** | **PROGRAMMING IN C++/ OBJECT ORIENTED PROGRAMMING IN C++** | **Max. marks :** | **100** |

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| **Q. No.** | **Questions** | **Marks** |
| **PART-A(10X1=10 MARKS)** | | |
| 1. | Identify the user-defined types from the following.   |  |  |  |  | | --- | --- | --- | --- | | a) enumeration | b) float | c) char | d) int | | 1 |
| 2. | List any two escape sequences. | 1 |
| 3. | Identify the keyword which can be used for coming out of recursion?   |  |  |  |  | | --- | --- | --- | --- | | a) break | b) return | c) continue | d) goto | | 1 |
| 4. | Give the syntax of switch case control statement. | 1 |
| 5. | Write the operator which is used to define the member of a class externally. | 1 |
| 6. | Write the keyword which can take the same definition of class but differs in the access techniques. | 1 |
| 7. | List any two opeartors which cannot be overloaded. | 1 |
| 8. | Give the syntax to call a member function using pointer. | 1 |
| 9. | Write the name of header file which is used to perform input output operation in file. | 1 |
| 10. | Give the syntax to access a static member function from class. | 1 |

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| **PART B(5 X 3= 15 MARKS)** | | |
| 11. | Differentiate integer division and modulo divison with sample code. | 3 |
| 12. | Demonstrate the usage of exit control loop. | 3 |
| 13. | Write the code snippet to find the sum of all elements in an array. | 3 |
| 14. | Demonstrate the usage of pointer. | 3 |
| 15. | Write the code snippet to illustrate the usage of function template. | 3 |

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| **PART C(5 X 15= 75 MARKS)** | | | |
| 16. |  | Explain any five features of object oriented programming. | 15 |
| (OR) | | | |
| 17. | a. | Explain the three logical operators with sample code. | 9 |
| b. | Explain any three relational operators with sample code. | 6 |
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| 18. | a. | Illustrate inline function with sample code. | 6 |
| b. | Demonstrate any three storage classes in C++ with sample code. | 9 |
| (OR) | | | |
| 19. | a. | Illustrate any two iteration control statements with sample code. | 10 |
| b. | Explain any two selection control statements with appropriate syntax. | 5 |
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| 20. | a. | Explain constructor overloading with sample code. | 7 |
| b. | Illustrate the usage of default copy constructor with sample code. | 8 |
| (OR) | | | |
| 21. | a. | Write a program in C++ to find the number of negative values in an integer array. | 7 |
| b. | Illustrate the usage of static class data with sample code. | 8 |
|  |  |  |
| 22. |  | Explain any three types of inheritance with sample code. | 15 |
| (OR) | | | |
| 23. | a. | Demonstrate the usage of new and delete operators with sample code. | 12 |
| b. | Give the syntax of operator overloading function. | 3 |
|  |  |  |
| 24. | a. | Differentiate virtual function and pure virtual function with sample code. | 8 |
| b. | Illustrate the usage of this pointer. | 7 |
| (OR) | | | |
| 25. | a. | Explain class template with sample code. | 10 |
| b. | Write the necessary code snippet to read from a file using ifstream. | 5 |