KLS Gogte Institute of Technology, Belagavi

Academic Year: 2019-20 (EVEN SEM)

Program: B.E Semester: II

**Internal Assessment - I**

Course Title: Object Oriented Programming using C++ Course Code: 18ACS/IS28

Max. Marks: 30 Duration: 1 Hr 15 min Date: 15/2/2020

***NOTE: All questions in Part A are compulsory and answer any 5 questions from Part B***

**PART A: Quiz**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Q.No** | **Question** | **[L]** | **[CO]** | **[PO]** | **[M]** |
| 1 | The identifier cout represents the \_\_\_\_\_\_\_\_\_\_\_\_\_ stream. | 1 | 1 | 1 | 1 |
| 2 | C++ mandates declaration of all variables before the first executable statement in a block. True / False |
| 3 | What is the effect of the statement **delete p** where p is a pointer to an array of 10 integers? |
| 4 | A member function of a class can invoke another member function of the same class. True/False |
| 5 | A friend function needs to be declared in the following section of a class   1. public b) private c) either a or b d) none |

**PART B:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Q. No.** | **Question** | **[L ]** | **[CO]** | **[PO]** | **[M]** |
| 1 | Illustrate the different uses of the scope resolution operator with suitable examples | **2** | **1** | **1** | **5** |
| 2 | Explain the different control structures supported by C++. | **2** | **1** | **1** | **5** |
| 3 | Write a function exchange(int &, int &, int &) that uses reference variables to cyclically exchange values contained in three variables. Write the associated main to exercise this function. | **3** | **1** | **3** | **5** |
| 4 | What are inline functions? Provide syntax and restrictions on using them. | **2** | **1** | **1** | **5** |
| 5 | Write the following overloaded functions:      i. strcopy(s1, s2) that copies all the characters of s2 to s1      ii. strcopy(s1, s2, n) that copies the first n characters of s2 to s1     Write the associated main to exercise these functions. | **3** | **1** | **3** | **5** |
| 6 | Create a class to represent a bank account. Include the following members: Data members: a) name of the depositor b) account number             c) balance amount  Member functions: a) To assign initial values b) To deposit an amount c) To withdraw an amount after checking the balance  d) To display details of the account  Write a menu driven main function that calls the member functions until the user chooses to terminate the program. | **3** | **3** | **3** | **5** |
| 7 | What are friend functions and their characteristics? Illustrate their usage with an example. | **2** | **1** | **1** | **5** |

**Signature of the Faculty Signature of the Module Coordinator HOD**