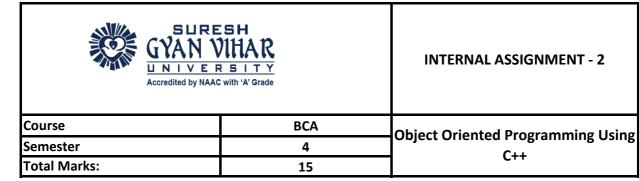| | | |
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| SURESH GYAN VIHAR UNIVERSITY Accredited by NAAC with 'A' Grade | | INTERNAL ASSIGNMENT - 1 |
| Course | BCA | Object Oriented Programming Using C++ |
| Semester | 4 | |
| Total Marks: | 15 | |

**Q.1.   Write answers for any two questions from below. (5 marks each – Word limit – 500)**

**A.**      What are recursive constructors? Explain with an example.

**B.**      Differentiate between overloading and overriding with example.

**C.**      Explain the visibility of base class members for the access specifiers: private, protected and public while creating the derived class and also explain the syntax for creating derived class.

**Q.2.   Write short notes on all of the following topics (1 mark each - Word limit - 100)**

**A.**      What is class template? Explain with examples.

**B.**      With an example, explain how virtual functions are hierarchical.

**C.**      What is the use of it?

**D.**      Base class

**E.**      Abstract Class

**Q.1.** **Write answers for any two questions from below. (5 marks each – Word limit – 500)**

**A.** List 5 rules of forming variable names in C++ and list down all possible datatype.

**B.** Write a C++ program to demonstrate pointers to base and derived classes.

**C.** Write a function template for finding the minimum value in an array.

**Q.2.** **Write short notes on all of the following topics (1 mark each - Word limit - 100)**

**A.** Early Binding

**B.** Constructor

**C.** What happens if we declare all member functions as private in a class?

**D.** List out the types of constructors.

**E.** Polymorphism