Code No: R1921055 **R19** SET - 1

**II B. Tech I Semester Supplementary Examinations, Feb/March - 2022**
**OBJECT ORIENTED PROGRAMMING THROUGH C++**
(Computer Science & Engineering)

Time: 3 hours Max. Marks: 75

Answer any **FIVE** Questions each Question from each unit
All Questions carry **Equal** Marks
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| 1 | a) | State the important features of object-oriented programming. | [8M] |
| | b) | Compare object-oriented programming with procedure-oriented programming. | [7M] |
| | | Or | |
| 2 | a) | Write a program for calculating the total marks and Grade of the 60 students in a class. | [8M] |
| | b) | State the use of static data member of a class. | [7M] |
| 3 | a) | Discuss with examples, the implications of deriving a class from an existing class by the 'public' and 'protected' access specifiers. | [8M] |
| | b) | Write a C++ program to overload area () and circumference () functions to calculate area of shapes like triangle, square, circle. | [7M] |
| | | Or | |
| 4 | a) | What is the use of a constructor? Explain default, parameterized and copy constructors with suitable examples. | [7M] |
| | b) | Write a program to overload == operator to compare two strings | [8M] |
| 5 | a) | Explain the use of this pointer. | [7M] |
| | b) | What are Abstract classes? Write a C++ program to demonstrate abstract class. | [8M] |
| | | Or | |
| 6 | a) | Explain use of friend function with the help of suitable example. | [8M] |
| | b) | Write C++ program to illustrate pointer object. | [7M] |
| 7 | a) | Demonstrate hybrid inheritance with the help of suitable example. | [7M] |
| | b) | How a pointer is declared and initialized? Give an overview of pointer arithmetic. | [8M] |
| | | Or | |
| 8 | a) | How a pointer is declared and initialized? Give an overview of pointer arithmetic. | [7M] |
| | b) | What is a virtual destructor? Explain with an example. | [8M] |
| 9 | a) | Write a C++ program for Generic Bubble sort. | [8M] |
| | b) | Write a C++n program to illustrate try, catch, and throw statements? | [7M] |
| | | Or | |
| 10 | a) | Explain Containers briefly. | [7M] |
| | b) | List and explain any five member functions from vectors and lists class in STL. | [8M] |



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