

II B. Tech I Semester Supplementary Examinations, January - 2023
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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**UNIT-I**

- 1 a) List out the differences between C and C++. [7M]  
 b) Explain the basic concepts of object oriented programming. [8M]

Or

- 2 a) List out the disadvantages of conventional programming. [7M]  
 b) Discuss in detail evolution of C++. [8M]

**UNIT-II**

- 3 a) Describe the importance of destructors. [7M]  
 b) What are the different access specifiers and its type and what is the scope of each and every access modifier? Discuss. [8M]

Or

- 4 a) Discuss parameterized destructor with the help of an example in C++. [8M]  
 b) What are the characteristics of constructor and destructor. [7M]

**UNIT-III**

- 5 a) What are the disadvantages of Inheritance? [6M]  
 b) How many arguments are required in the definition of an overloaded unary operator? Explain. [9M]

Or

- 6 a) Explain the different types of inheritance with an example for each. [9M]  
 b) List out the rules for overloading operators. [6M]

**UNIT-IV**

- 7 a) Explain use of virtual function with the help of suitable example. [7M]  
 b) Illustrates the use of pointers to objects. [8M]

Or

- 8 a) What is this pointer explain with an example program? [8M]  
 b) Explain various types of binding. [7M]

**UNIT-V**

- 9 a) Explain in detail about exception handling in C++ with an example program. [8M]  
 b) What are the difference between templates and macros? [7M]

Or

- 10 a) Explain in detail about linked lists with templates. [8M]  
 b) Explain the following terms, [7M]  
 i) Iterators ii) Vectors