

Code No: 153BK

**R18**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**B.Tech II Year I Semester Examinations, March - 2022**

**OBJECT ORIENTED PROGRAMMING USING C++**

(Common to CSE, IT, ECM)

Time: 3 Hours

Max. Marks: 75

**Answer any five questions  
All questions carry equal marks**

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- 1.a) Explain jumping control structure in C++.
- b) Write a program to find whether the given number is a palindrome or not. [7+8]
- 2.a) Explain operator precedence.
- b) Write a C++ program to add corresponding elements of two arrays and store them in a new array using pointers. [6+9]
- 3.a) Explain friend class with example program.
- b) Differentiate constructors and destructors.
- c) What is use of this pointer? [8+4+3]
- 4.a) Discuss the properties of a class.
- b) Explain different types of constructors with example program. [5+10]
- 5.a) Explain different forms of inheritance. Give an example of each.
- b) Write a C++ program to demonstrate how access modifier of super class method can be changed in privately derived class. [9+6]
- 6.a) Discuss about pure virtual function with example program.
- b) Differentiate between early and late binding. [10+5]
- 7.a) Explain file stream functions.
- b) Write a C++ program to create a file of strings and to read the contents of a file line by line. [7+8]
- 8.a) Discuss about the importance of try, catch and throw keywords.
- b) Write a C++ program containing a possible exception. Use a try block to throw it and a catch block to handle it properly? [6+9]

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