**R18** Code No: 153BK JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech II Year I Semester Examinations, October - 2020 OBJECT ORIENTED PROGRAMMING USING C++ (Common to CSE, IT) Max. Marks: 75 Time: 2 hours Answer any five questions All questions carry equal marks. How to create a class? How to create an object? Explain with an example. 1.a) How data and functions are organized in Object Oriented Program? Explain with an b) [7+8]example. How member function is defined inside a class and outside the class? Explain with an 2.a) example each. In which order the constructors and destructors are executed? Explain with an example. b) Write a C++ program to implement single inheritance with public access specific. 3.a) What are pure virtual functions? How are they different from normal functions? [6+9] b) 4.a) Write the difference between the: i) get() function and the getline() function ii) write () and read() function. Write a statement that will read the contents of an ifstream object called ifile into an array b) [9+6] called buff. Define what "current position" means when applied to files? Write a C++ program to demonstrate the concept of rethrowing an exception. 5.a) Explain the use of try, catch and throw for exception handling in C++ [8+7]b) How a pointer is declared and initialized? Give an overview of pointer arithmetic. 6.a) [8+7]Differentiate between new and delete operators in C++ with suitable examples. b) Define parameterized constructors. How to write them? Give an example. 7.a) [8+7] b) Describe the process of dynamically creating and destructing the objects. What is virtual inheritance? Give an example in C+A to illustrate the use of it. 8.a) Write a program in C++ that prints the factorial of a given number using dynamic [7+8]binding. ---ooOoo---

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