Please check that this question paper contains\_09\_ questions and 02 printed pages within first ten [Total No. of Questions: 09] [Total No. of Pages: 02] Uni. Roll No. .... Program: B. Tech. (Batch 2018 onward) Semester: 1<sup>st</sup>/2<sup>nd</sup> Name of Subject: Object Oriented Programming using C++ Subject Code: PCIT-102 Paper ID: Time Allowed: 03 Hours Max. Marks: 60 NOTE: 1) Parts A and B are compulsory 2) Part-C has Two Questions Q8 and Q9. Both are compulsory, but with internal choice 3) Any missing data may be assumed appropriately Part - A [Marks: 02 each] 01. Compare and contrast structured programming and object oriented programming. a) What is the importance of dynamic binding in the programming? b) Briefly explain the use of 'this' keyword in C++. c) How templates are useful in generic programming? d) Create a code segment in C++ to show the use of operator overloading. e) Write down the output of the following code? f) #include <iostream> #include <string.h> int main()

Part - B

using namespace std;

{

[Marks: 04 each]

Q2. What is the need of passing objects as arguments? Discuss different ways to pass objects as arguments to a function.

 $char\ p[]="This\ is\ a\ test";\ cout<< size of(p)<<","<< strlen(p);$ 

Q3. Discuss the role of access specifiers in inheritance and their visibility when they are inherited as public, private and protected.

## **EVENING**

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- Q4. When do we need multiple catch blocks for a single try block? Give an example.
- Q5. Write a program in C++ to demonstrate the difference between 'break' and 'continue'.
- Q6. Write a program to create two objects using copy constructor.
- Q7. How strings are used in C++? Write a program to extract a substring from given string.

Part - C

[Marks: 12 each]

Q8. Compare and contrast virtual functions and pure virtual functions with the help of an example.

OR

Explain various control statements available in C++ through proper examples.

Q9. Write a program to differentiate function overloading and function overriding.

OR

Write a program in C++ to copy the contents of one file to another.

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