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Roll No ....

IT-3004 (CBGS)

B.E., III Semester

Examination, May 2018

Choice Based Grading System (CBGS)

Object Oriented Programming and Methodology

Time : Three Hours

Maximum Marks : 70

Note: i)   Attempt any five questions.

ii)   All questions carry equal marks.

1. a)   Define inline functions and its characteristics? Describe with suitable example?

   b)   What are fundamental differences between object oriented programming and procedure oriented programming? **rgpvonline.com**

2. a)   Describe the mechanism of accessing data member and member function in the following cases:

   i)   Inside the main program

   ii)   Inside a member function of the same class

   b)   How is polymorphism achieved at compile time and runtime?

3. Discuss the role of inheritance in object oriented programming. What is public, private and protected derivation?

4. Differentiate between with taking a suitable example

   a)   Constructor and destructor

   b)   Copy constructor and default constructor

   c)   Public and private access specifiers

5. a)   Write C++ program to overload '+' operator using member function to add two complex numbers?

   b)   Discuss various type of inheritance? With taking a suitable example?

6. Define following terms:

   a)   Friend class and friend function

   b)   Virtual function

   c)   This pointer

7. a)   What is meant by initializing a file stream objects? What are input and output streams? Give example?

   b)   Explain exception handling and containers?

8. Write a short notes (any three):

   a)   Command line arguments

   b)   Memory managements

   c)   Data hiding

   d)   Control statements

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