Total No. of Questions: 8]

www.rgpvonline.com

[Total No. of Printed Pages: 2

Roll No.....

MCA-303

MCA. III Semester

Examination, December 2017

Object Oriented Methodology & C++

Time: Three Hours

Maximum Marks: 70

www.rgpvonline.com

Note: i) Attempt any five questions.

ii) All questions carry equal marks

- 1. Create a class student containing data members as Roll-no., Stu-address, Stu-class, Stu-dub, Stu-percentage. Include member functions to accomplish the following:
 - Design a constructor to automatically generate Roll-no. for the students
 - Accept student details from the user.
 - iii) Calcutate the student age from his birth year.
- Write a program in C++ to find the sum of Two entered complex numbers from complex class and display the sum using a member function.
- 3. Write a program in C++ which concatenates two strings by operator overloading.
- What are the different forms of inheritance? Give an example of each.

MCA-303

www.rgpvonline.com

493

PTO

www.rgpvonline.com

www.rgpvonline.com

[2]

http://www.a2zsubjects.com

Illustrate the utility of friend function using an example.

Write a C++ program to illustrate the virtual function in inheritance.

Write a C++ program to demonstrate the try throw and catch.

8. Answer any four of the following:

Explain various types of loop available in C++.

Differentiate between private, public and protected data members of the class using examples.

What are virtual functions? Explain a condition in which virtual functions would be appropriate.

Discuss various stream classes in C++.

Discuss aggregation generalization and association.

Compare and contrast various UML diagram.

494

MCA-303

www.rgpvonline.com

www.rgpvonline.com

www.rgpvonline.com

www.rgpvonline.com

www.rgpvonline.com

www.rgpvonline.com

vww.rgpvonline.com