rgpvonline.com

d) What is exception handling? How is it done? Explain with examples.

Or

Describe the features of I/O system supported by C++.

rgpvonline.com

Roll No

IT - 303

B.E. III Semester

Examination, December 2015

OOPs Methodology

Time: Three Hours

Maximum Marks: 70

- Answer five questions. In each question part A, B, C is Note: i) compulsory and D part has internal choice.
 - ii) All parts of each question are to be attempted at one place.
 - iii) All questions carry equal marks, out of which part A and B (Max. 50 words) carry 2 marks, part C (Max. 100 words) carry 3 marks, part D (Max. 400 words) carry 7 marks.
 - iv) Except numericals, Derivation, Design and Drawing etc.

Unit-I

- How are data and functions organized in an object oriented program?
 - b) What do you mean by dynamic binding? How is it useful in OOP?
 - Describe how data are shared by functions in a procedureoriented program.
 - What is operator overloading? Why is it necessary to over load an operator?

Or

Describe the multiple inheritance with an example. When do we use such an inheritance?

rgpvonline.com

Or

[3]

What are the advantages and limitation of using default arguments in a function? Write a program which defines a function with three default arguments and call the function in four different ways.

Unit-IV

- 4. a) How methods can be redefined and used? Give example.
 - b) How inherited method is different from redefined method?
 - c) What is role of access specifiers in OOP?
 - d) What is containership? How does containership differ from inheritance?

Or

Design a class called as FATHER and MOTHER as base classes and class CHILD which is derived from both father and mother. Father has qualities Q_1 , Q_2 and Q_3 and mother has qualities Q_1 , Q_2 and Q_4 . Write a C++ program to display the qualities of CHILD due to inheritance.

Unit-V

- 5. a) What is the role of scope resolution operator in C++?
 - b) What are the functions supported by file system classes for performing I/O operation?
 - c) What is file mode? Describe the various file mode operation available.

Unit-II

- 2. a) What kinds of thing can become object in OOP?
 - b) What are the difference between aggregation and inheritance?
 - How can we implement aggregation in OOP? Explain with example.
 - d) What are the problems associated with storage management? How can it solve?

Or

What is the purpose of class diagram? Describe icons used for class relationships.

Unit-III

3. a) Distinguish between the following two statements:

Time $T_2(T_1)$;

Time $T_2 = T_1$;

IT-303

T2, T1 are the objects of class Time.

- b) What is a class? When do we declare a member of a class static?
- c) Can we pass class objects as function arguments? Explain with the help of an example.
- d) What is association? How recursive association is achieved in OOP?

IT-303

Contd...