

BACHELOR OF COMPUTER APPLICATIONS

Term-End Practical Examination

December, 2012

03615

BCSL-032 : C++ Programming Lab

Time allowed : 1 hour

Maximum Marks : 50

Note : *There is **one** compulsory question of **40** marks in this paper. **10** marks are for viva - voce.*

1. Write and run a C++ Program to create class Complex - Number. 40
 - (a) This class will create objects of complex numbers.
 - (b) Define appropriate constructor for this class.
 - (c) Define method to display complex number.
 - (d) Overload '+' operator for adding two complex numbers.
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03266

BCSL-032 : C++ Programming Lab

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Maximum Marks : 50

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1. Write and run a C++ program to create a class Time which creates the objects with day, month and year as member variables. 40
 - (a) The program should have constructor for initializing all the data (member variable) and display current time.
 - (b) It should have functions to display whether the year is a "leap year" or not.
 - (c) It should have function to tell the number of days in the month. You are free to make necessary assumptions required.
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01475

BCSL-032 : C++ Programming Lab

Time allowed : 1 hour

Maximum Marks : 50

Note : *There is **one** compulsory question of **40** marks in this paper. **10** marks are for viva - voce.*

1. (a) Write and run a program to create a class Account to manage the bank accounts. **40**
This class should have details of account holder including name, address, account number as data member and display - details () as member function to display basic information of the account holders.
 - (b) Derive classes saving - Account and FD - Account from Account Class. These classes should have details about interest rate, account balance and operations related to transactions on the account. The program should have appropriate constructor for all the classes. You are free to make assumptions required.
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00405

BCSL-032 : C++ Programming Lab

Time allowed : 1 hour

Maximum Marks : 50

Note : *There is **one** compulsory question of **40** marks in this paper. **10** marks are for viva - voce.*

1. Write and run the following C++ program : 40
- (a) Create a Student class with basic data members, member functions and constructor.
 - (b) Derive UG - Student and PG - student classes from student class with additional details of their specialized courses. Define appropriate constructor and methods in derived classes also.
 - (c) Define proper destructor with appropriate message about its execution for all the three classes. You are free to make necessary assumptions required.
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