

120

BCA 3rd Semester Examination 2014
Course : 8
(Object Oriented Programming through C++)
(Practical)

Time : 3 Hrs.

Full Marks : 40

Part A: Programm

(Candidate is to do any two program from among the following)

15 X 2 =30

1. Write a C++ program using classes to calculate the area of Circle Ractangle, Triangle and Sphere using four different functions.
2. Write a C++ program using classes to input two arrays of 10 elements each, merge the two arrays, and display the merged array in sorted order.
3. Write a C++ program using classes to read a text string and print out the string in reverse order.
4. Write a C++ program to create a class STUDENT and store and display students name, roll-no, and age.
5. Write a C++ program to create a class BOOK and store and display book records like title ... author, year, price etc.
6. Write a C++ program to create a class PRIME and check whether a given input number is prime.
7. Write a C++ program using classes to take the basic pay of an employee and calculate his salary as follows -
$$\text{GROSS SALARY} = \text{BASIC PAY} + \text{DA (75\% of BASIC PAY)} + \text{HRA (20\% of BASIC PAY)} + \text{TA (10\% of BASIC PAY)}.$$
8. Write a C++ program using classes to create a file and write some text into the file. Calculate seperately the number of vowels, consonants, digots and white spaces.
9. Write a C++ program using classes to calculate simple interest, compound interest, and the difference between them.
10. Write a C++ program using classes to input 10 integers in an array, sort them in accending order, store the sorted result in another array, and display the elements of the sorted array.
11. Write a C++ program to create a class EMPLOYEE and then inherit its properties to two classes TEACHER and STAFF. Include appropriate data members and member functions.
12. Write a C++ program to create a class BANK-ACCOUNT including appropriate data members. Include member functions for assigning account-no, assigning initial balance deposit and withdrawel.

Part - B

1. Viva-voce

10

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