

Object Oriented Programming with C++

Answer all the Questions

Q. No.	Question Description	Marks																
1	State the important features of object oriented programming. Compare object oriented programming with procedure oriented programming	10																
2	<p>a. Interpret/explain the following model: (3Marks)</p> <div><table><tr><td>Professor</td><td>Student</td></tr><tr><td>personalName</td><td>personalName</td></tr><tr><td>familyName</td><td>familyName</td></tr></table></div> <p>b. Interpret/explain the following model: (3Marks)</p> <div><table><tr><td colspan="2">Person</td></tr><tr><td colspan="2">personalName</td></tr><tr><td colspan="2">familyName</td></tr></table> <div><table><tr><td>Professor</td><td>Student</td></tr><tr><td></td><td></td></tr></table></div></div> <p>c. Discuss which of these two models is better and why. (4 Marks)</p>	Professor	Student	personalName	personalName	familyName	familyName	Person		personalName		familyName		Professor	Student			10
Professor	Student																	
personalName	personalName																	
familyName	familyName																	
Person																		
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Professor	Student																	
3	<p>Define a class named 'Bank Account' to represent following members:</p> <p>Data members :- - Account Number - Name of Depositor - Account Type - Balance Amount</p> <p>Member functions: - Initialize members - Deposit Amount - Withdraw Amount - Display Balance</p> <p>Write a C++ program to test the Bank Account class for 10 customers.</p>	10																
4	<p>List the characteristics of a constructor. Write a C++ program to define a suitable parameterized constructor with default values for the class distance with data members feet and inches.</p>	10																
5	<p>Write a C++ program to add and subtract two complex numbers by overloading '+' operator and '-*' operator.</p>	10																