

L/\B No	Date	Question	Page No.	Remarks
7	08/09	<ul> <li>7.1 Wap to create a class named Λ and accept two nos by using getdata () and Create a class B derived from Λ which will display that two nos by using putdata ().</li> <li>7.2 Wap create a Number class which will accept two no. And create another class Calculate, derived from Number class which will display GCD of that two nos by using appropriate function.</li> <li>7.3 Wap create a Father class data member is name and age. And</li> </ul>	1 - 2	
		create Son class derived from Father which will accept name and age. if son age is greater than Father age it displays error otherwise it displays all info about Father and son	2 - 3	
		7.4 Wap to create Rectangle class having data member width & height and create another class Area which will derived from Rectangle.  And display its area.	3 – 4	
		7.5 Wap to create a Student class which data members are roll, name & mark of 3 subject and create Result class which will display all info along with grade.	4 - 7	
8	15/09	8.1 Wap to create Base class Number. And make two derived class Prime & Armstrong. And display whether a number entered is prime or not and Armstrong or not by declaring appropriate function.	.8 – 9	
		8.2 Wap to create 2 base class Λ &B. having respective data member x, y. And create derived class GCD from Λ &B and display GCD of x and y using appropriate function.	9 – 10	
		8.3 Wap to create two base class named Rectangle & Triangle class. And common function getdata (), area (). And another class Area derived from Rectangle and Triangle with No member function. Display the area of Rectangle and Triangle.	10 – 12	
		8.4 Wap to create Base class A and data member is x. And B class derived from A having data member y. And C class derived from B will check greatest no between them using appropriate function.	12 – 13	
		8.5 Wap to create father class having data member name and age. Another class son derived from father also having same data member. Grandson derived from son also having same data member. And common getdata putdata function. Display details of father, son and grandson.	13 – 15	
		8.6 Wap to create Student class. Data member name, roll. And Academic class derived from student and data member a1, a2 mark. And sport class derived from Student and data member is s1, s2 mark. And Result class derived from Academic & Sport, which will display roll, name, a1, a2 mark and s1, s2 mark along with display total mark using appropriate mark.	15 – 17	
9	22/09	9.1 WAP to declare a class which stores a complex number. Include a member function which compares the modulus of the two complex class objects and returns the object with higher value. Include a parameterized constructor which arguments with same name as that of the class data members.	18 – 19	
		9.2 WAP in which there is a global variable, a local variable for main function and a variable in a nested scope inside main, with the same name. Print all the three variables.	19	
		9.3 WAP to take input for two integer variables. Assign the value -1 to the variable with higher value using a function. [Use return by reference].	19 – 20	
		9.4 Create a class student which stores name, date-of-birth and date-of- joining of a student. The data members date-of-birth and date-of- joining should be the objects of another class called 'date'. Input the data for 10 students and display it.	20 – 22	
		9.5 Write a program to demonstrate the order of call of constructors and destructors in case of multiple inheritance where one or more base classes are virtual.	22 – 23	

(A)	
10 6/10 10.1 Wap to create Hierarchical Structure. Number class is base data  member int X and two derived class Perfect & Strong. It will check corresponding whether no is perfect or Strong. But thing is one input will take and that single input will check both.	
10.2 Wap to create One Base class Father data member fname. And Son class derived from Father dada member sname and GrandSon derived from Son data member gname. Use appropriate function that GrandSon will display all name by it concatenating.	
11 25/8 11.1 Write a program to overload unary(-) operator . 27	
M.2 Write a program to overload unary(-) operator using friend function.	
M.3 Write a program to overload unary(++) operator and unary () operator.	
11.4 Write a program to overload unary(++) operator and unary () operator using friend function.	
M.5 Write a program to design a class representing complex numbers and having functionality of performing addition and multiplication of two complex numbers using operator overloading.	
11.6 Wap add two string using binary operator overloading. 30 – 31	
12 03/11 Virtual function	
Create Father class and Son class Son from that Father class. Has same member function activity. Father activity is go to office. Student Task is go to School.(1 - 3)	
12.1 Wap to display the only Son task without display the father activity by using virtual function.	
12.2 Wap to display only Father activity without display son activity using virtual function.	
12.3 Wap to display Both father and son activity by using virtual function. $32-33$	
12.4 Wap to create Shape class. It has two data member function. area() and display(). Area is dummy function. And Display only working. And derived another class Circle. Which also two member function area() display1(). By using abstract class display area of circle and as well	
as display function of Base class.	
13.1 (Pointers to objects) Define a class Item that is used to store and display the information regarding the item number and its price. Write a program to store and display the details of one items by using both normal object and pointer to object separately. Display appropriate message wherever necessary.	
13.2 Modify the program LE8.1 by creating an array of n objects using pointers. Show the details of n items by using pointers to object concept.	
43.3 (Pointers to derived classes) Write a program to illustrate how pointers to a base class is used for both base and derived class.	
13.4 (this Pointer) Write a program to display the contains of an object, when local variable's name is same as member's name by using this pointer.	

		<ul> <li>13.5.1 (Virtual Function) Define a class ΛBC. Derive two classes BBC and KBC from ΛBC. All the classes contains same member function name as display(). The base class pointer always holds the derived class objects.</li> <li>a) Write a program such that base class pointer or reference will always access/call the base version of the members available in derived class, do not have any access to the derived class members.</li> <li>b) Write a program such that base class pointer or reference will always access/call the derived version of the members available in derived class, do not have any access to the base class members. Write down the concepts used for bit a) and b) separately.</li> </ul>	36 – 37	
		<ul> <li>(Virtual Function) Define a class ABC. Derive two classes BBC and KBC from ABC. All the classes contains same member function name as display(). The base class pointer always holds the derived class objects.</li> <li>a) Write a program such that base class pointer or reference will always access/call the base version of the members available in derived class, do not have any access to the derived class members.</li> <li>b) Write a program such that base class pointer or reference will always access/call the derived version of the members available in derived class, do not have any access to the base class members. Write down the concepts used for bit a) and b) separately.</li> </ul>	37 – 38	
		13.6 (Pure Virtual Function) Write a program by modifying LE8.5 b) by making display() as pure virtual function.	38	
14	17/11	14.1 Wap to display the Divide by zero exception(Arithmetic Exception)	39	
		14.2 Wap to create exception if user enter 0 it raise exception "zero entered" if enter negative it raise "Negative Exception" if enter positive then it raise "Positive Exception"	39 – 40	
		14.3 Question no 2 try to do with using function.	40	
		14.4 Question no 2 try to do using three dot(.) mechanism	40 – 41	
		14.5 Wap to enter your age if age not in 1-100 it raise invalid age.	41	
		14.6 Wap to enter employee details eno,ename,edesg,esal. if salary is zero or negative then it raise exception invalid salary otherwise display eno,ename,gross salary based T∧=9% of basic HR∧=15% of basic.	41 – 42	
		14.7 Wap to create two class Father and Son. Data member fname, fage, sname, sage. If father age is less than son age then it raise exception "Son age is exceed than father".	42 – 43	
15	23/11	15.1 Wap swap two value by using template.	44	
		15.2 Wap to add two no of same type by using template	44	
		15.3 Wap to add two different types of number by using template.	44 – 45	
		15.4 Wap to create template class which will add two different types of no and display it.	45	