

Time allowed: 2 Hours

Maximum Marks:60

**Note: Attempt any four questions. All questions carry equal marks.**

1.		Define and distinguish between procedure oriented and object oriented programming.
2.	a.	Define and distinguish between class and object.
	b.	What is a “this” pointer? Explain its use with the help of suitable example.
3.		What are different types of scopes? Explain giving examples.
4.		Write a program to implement multiple inheritance.
5.		Define function overloading. How default parameters are used with function overloading? Explain.
6.		Distinguish between function overloading, redefinition and overriding.
7.		Create a template function for adding a list of any type of n numbers.
8.		How unexpected, terminate and abort events are handled? Explain.
9.		All questions are compulsory.
	a.	Define code extensibility.
	b.	How new and delete operators are used?
	c.	What do you mean by parameter passing by reference?
	d.	How static data members are defined?
	e.	How ambiguity is resolved in multiple inheritance?
	f.	What do you mean by a container class?
	g.	What do you mean by indirect base class?
	h.	Define code reusability.
	i.	How an abstract base class is defined?
	j.	Distinguish between early binding and late binding.
	k.	Define function overriding.
	l.	Define rethrowing exceptions.