2024

Object Oriented Programming with C++

Full Marks: 100

Time: Three hours

The figures in the margin indicate full marks for the questions.

*Answer **any five** questions.*

1.	a)	Define *Class* and *Object* in Object-Oriented Programming. Explain Class and Object with an example.	14 + 6
	b)	Write the advantages of Object-Oriented Programming.	
2.	a)	What is the difference between the *Structure* and *Class*?	
	b)	Write a Class of *Student* with the private attributes are the marks of five subjects. Write a member function to calculate the percentage of the marks.	6 + 14
3.	a)	What is constructor? What are the use of a constructor? State some properties of a constructor.	
	b)	Write a Class in C++ to find the maximum of two number. Where numbers are initialized with a constructor.	10+10
4.	a)	Describe the concept of inheritance in C++. What are its advantages?	
	b)	Write a C++ program to demonstrate single inheritance. Create a base class as Person with attributes *Name*, *Age*, *PhNo* and a derived class Student that inherits from Person.	10+10
5.	a)	What is exception? Why exception handling is better to use?	
	b)	Explain exception handling with ***try….. catch*** by using suitable example.	10+10
6.		Write the short note on	
		i) Abstraction ii) Inheritance iii) Encapsulation iv) Polymorphism	4 x 5