

GBGS SCHEME

17EC562

Fifth Semester B.E. Degree Examination, July/August 2021 Object Oriented Programming using C++

Time: 3 hrs. Max. Marks: 100

Note: Answer any FIVE full questions.

1	a. b.	Explain different control structures in C++. Explain the application of scope resolution operator with an example program.	(09 Marks) (07 Marks)
	c.	Describe identifiers and constants.	(04 Marks)
2	a.	Explain: i) Input operator ii) Output operator and iii) Comments in C++.	(09 Marks)
_	b.	Explain user defined data types in C++.	(07 Marks)
	c.	Write a program to add first N natural numbers.	(04 Marks)
	0.	The a program to dad into	
3	a.	Describe: i) Call by value and ii) Call by reference method of argument p	passing to a
		function with example program.	(06 Marks)
	b.	Explain friend function. Define a class by name myclass, which has two variab	les a and b.
		Write a friend function to find mean of a and b and display the result.	(08 Marks)
	C.	Explain the structure of a class with a simple C++ program.	(06 Marks)
4	a.	What is a recursive function? Explain with an example program.	(06 Marks)
	b.	Define a class employee with private variables name and age. Write a program	to read the
		name and age of three managers and display them.	(08 Marks)
	C.	Explain function overloading with example.	(06 Marks)
5	a.	What is a constructor? Mention the characteristics of constructor function.	(06 Marks)
	b.	Write a C++ program to overload binary operator using friend function.	(08 Marks)
	c.	Explain copy constructor with an example program.	(06 Marks)
6	a.	Explain multiple constructors in a class using a C++ program.	(06 Marks)
U	b.	Write a C++ program to demonstrate dynamic constructors in a class.	(08 Marks)
	c.	Write a C++ program to overload unary-operator.	(06 Marks)
	С.	Write a O - program to o order	
7	a.	Explain inheritance. Discuss different types of inheritance with diagram.	(06 Marks)
	b.	Describe multiple inheritance with example program.	(08 Marks)
	c.	Explain this pointer with a program.	(06 Marks)
8	a.	What is a virtual function? Mention the rules for virtual function.	(06 Marks)
	b.	Explain single inheritance with suitable program.	(08 Marks)
	C.	Explain how ambiguity is resolved in multiple inheritance.	(06 Marks)
9	a.	Explain C++ stream classes.	(06 Marks)
	b.		(08 Marks)
	C.	Demonstrate reading from two files simultaneously.	(06 Marks)
10	a.	Explain opening and closing of a single file with example program.	(08 Marks)
10	b.		(06 Marks)
	c.	The state of the s	(06 Marks)
	C.	Explain Sylling () and hills () in the control of t	

* * * * *