GBGS SCHEME



BPLCK205D/BPLCKD205

Time: 3 hrs. Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module. 2. M: Marks, L: Bloom's level, C: Course outcomes.

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		Module – 1	M	L	C
Q.1	a.	Explain the basic C++ program syntax with an example.	10	L2	CO1
	b.	What is the need of abstract class in C++? Discuss with an example.	10	L2	CO1
		OR			
Q.2	a.	Discuss object and classes in brief.	4	L2	CO1
	b.	Write down the syntax and example to create a class.	6	L3	CO ₂
	c.	Define the terms:	10	L2	CO1
		(i) Message passing (ii) Abstraction (iii) Encapsulation			
		(iv) Inheritance (v) Polymorphism			
		Module – 2			
Q.3	a.	Explain scope resolution operator with an example program.	10	L2	CO1
	b.	What is a token? List the various types of token and explain in brief.	10	L2	CO1
		OR			
Q.4	a.	Illustrate the use of inline functions with a program.	10	L2	CO4
	b.	Write a C++ program to swap 2 values by writing a function that uses call	10	L3	COS
		by reference technique.			
		Module – 3		•	-
Q.5	a.	What does inheritance mean in C++? What are the different forms of	10	L2	CO2
		inheritance? Give an example for each.			
	b.	Suppose we have three classes vehicle, four wheeler and car. The class	10	L3	COS
		vehicle is the base class, the class four wheeler is derived from it and the			
		class car is derived from the class four wheeler.			
		So, if we invoke the methods in this order, car(), four wheel() and			
		vehicle(), then the output will be			
		I am a car.	36		
		I have four wheels.	-		
		I am a vehicle.	0		
		Write a C++ program to demonstrate multilevel inheritance using this.			
20 10		OR			1
Q.6	a.	What is a constructor? How do we invoke a constructor function?	5	L2	CO2
	b.	Describe the importance of destructors.	5	L2	CO2
	c.	How is polymorphism achieved at (i) compile time (ii) run time, with	10	L2	CO ₄
		an example program.	*		
		Module – 4			The second second
Q.7	a.	Write a note on I/O streams.	10	L2	CO
	b.	What are the various types of files? What are the various modes in which a	10	L2	CO2
		file can be opened with an example program?			
		OR			1
Q.8	a.	Explain the uses of ifstream and ofstream classes for file input and output.	10	L2	CO2
	b.	Write a C++ program to create a text file created or not, if created it will	10	L3	CO3
		write some text into the file and then read the text from the file.			
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Q.9	a.	Define exception. Explain different blocks of exception handling.	10	L2	CO1
	b.	Write a function which throws a division by zero exception and catch it in	10	L4	CO ₄
		catch block. Write a C++ program to demonstrate usage of try, catch and	W		
		throw to handle exception.			
	_	OR •			
Q.10	a.	Discuss catching class type as exception and rethrowing an exceptions.	10	L4	CO
	b.	Write a C++ program function which handles array of bounds exception	10	L3	CO
		using C++.			
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