Paper Code: BCA-205

Subject: Object Oriented Programming

END TERM EXAMINATION

THIRD SEMESTER [BCA] DECEMBER 2024-JANUARY 2025

	with C++ (BATCH 2021 ONWARDS)	
Tim	ne: 3 Hours Maximum Me	arks: 60
	Note: Attempt five questions in all including Q. No.1 which compulsory. Select one question from each unit.	is
Q1	Write short notes on the following (Any Five):- (a) C++ Stream classes (b) Explain inline function (c) What is virtual function? (d) Differentiate between Call by value and call by reference. (e) Explain Aggregation. (f) What is Abstract Class? (g) Differentiate between early binding and late binding. (h) Give an example of Template function.	(4x5=20)
	UNIT-I	
Q2	(a) Differentiate between Procedural programming and Object programming.	
	(b) Explain the use of new and delete operators using an example.	(5) (5)
Q3	(a) What are the features of Object-oriented Programming? (b) Differentiate between C and C++.	(5) (5)
04	UNIT-II	
Q4 Q5	friend function. (b) What is a constructor? Explain various types of constructors. Wriprogram to illustrate the use of the default constructor, parameters, and copy constructor. OR (a) Define operators overloading. Write a C++ program to overload '+' of to concatenate two string and two complex numbers.	(5) te a C++ trametric (5) operators
	(b) Explain the Access Specifiers in C++ and also give the suitable exam	ple. (5)
Q6	(a) What are the different forms of inheritance supported by C++? Expense examples. (b) Explain the different forms of polymorphism in C++ with the example.	
Q7	(a) What is the Unary Operator Overloading? Write a C++ program to in	- •
	it. (b) What is Pure Virtual function? Explain with suitable example.	16.5) (6.5)
Δ0	UNIT-IV	
Q8	containing a possible exception. Use a try block to throw it and block to handle it property. (b) What are command line arguments in a file? Write a program to exp to read text and to display its contents on the screen. OR	a catch (5) clain how (5)
Q9	What is a template? Write a template for adding two numbers of data types.	
	(b) What is generic programming? How it is implemented in C++?	(5) (5)
