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BCMCAV 154

Credit Based Second Semester B.Com. Degree Examination, September 2022 (2018-19 and Earlier Batches) COMPUTER APPLICATIONS (Vocational) Paper – III: Object Oriented Programming Using C++

Time: 3 Hours Max. Marks: 80

PART – A

- 1. Answer any ten of the following questions: (10×2=20)
 - a) Mention the rules to be followed for declaring identifier.
 - b) Give the syntax of switch statement.
 - c) What are the uses of void data type in C++?
 - d) What do you mean by pass by reference?
 - e) Explain the concept of data hiding in C++ with an example.
 - f) What are constant member functions?
 - g) Give any two features of constructors.
 - h) What is the use of keyword operator in C++? Give example.
 - i) What is destructor? How do you define it?
 - j) What is the difference between overloading and overriding?
 - k) Define base class and Derived class.
 - I) What is polymorphism? What are its types?

PART - B

Answer **any one full** questions from **each** Unit of Part – **B**.

Unit - I

2. a) Explain basic data types supported by C++.
b) Explain any two loop control structures with syntax and example.
c) Explain increment and decrement operators with example.
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3.	a)	Write a note on different types of expressions in C++.	5					
	b)	Explain various bitwise operators available in C++.	6					
	c)	Explain with example the concept of reference variable in function call.	4					
	Unit – II							
4.	a)	Explain how to pass arrays to functions with a suitable example.	5					
	b)	Explain concept of default arguments with example. Also mention the rules to be followed while assigning default values.	5					
	c)	What is friend function? What are the merits and demerits of using friend function?	5					
5.	a)	Explain how to pass arrays to functions with a suitable example.	5					
	b)	Explain different ways of defining member functions of a class with an example.	5					
	c)	Write a note on objects as functional arguments.	5					
		Unit – III						
6.	a)	What is meant by constructor overloading? Explain with code example.	5					
	b)	How do you overload a unary operator using friend function? Explain with example.	5					
	c)	Explain basic to class type conversion with an example.	5					
7.	a)	Explain one class another class conversion with an example.	5					
	b)	How do you overload a binary operator using member function? Explain with example.	5					
	c)	Write a program to generate fibonacci numbers by overloading ++ operator.	5					
		Unit – IV						
8.	a)	Explain multi level inheritance with an example.	5					
	b)	Explain how pointers to derived class are used in a program with an example.	5					
	c)	What are the basic rules for function to be virtual?	5					
9.	a)	Explain how pointer to objects is used in a C++ program.	5					
	b)	Explain public mode of inheritance with example.	5					
	c)	Write a note on virtual constructors and destructors.	5					
