each.

in a class.

f)

BACHELOR OF COMPUTER APPLICATIONS (BCA) (Revised)

Term-End Examination,

December 2019

BCS-031: PROGRAMMING IN C++					
Tin	ne : .	3 Hours] [Maximum Marks : 100 (Weightage : 75%))		
No	te :	(i) Question No. 1 compulsory and carries 40 marks. (ii) Attempt and three questions from the rest.			
1.	a)	Explain the use of 'Break' and 'Continue' statement in C++, with example program.			
	b)	What are Access control specifiers? Explain various types of access control specifiers.			
	c)	What is 'Copy constructor'? Explain it with the help of a suitable C++ program.			
	d)	Explain the concept of Friend function with suitable example code in C++.			
	e)	Compare while () and do-while() looping constructs with the help of suitable example for	•		

- What is Object initialization? Why it is required, g) explain with the help of an example. Explain the usage of single inheritance and multiple
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Write a program in C++, to find the largest of given

three numbers by using a member function defined

2.	a)	What is a Class template? How it is different f	rom
	•	function template? Give example for each.	8
	b)	What are Inline functions? Discuss their importa	ance
		in programming. Write an example program in (C++

to clarify the concept of Inline functions.

- c) What is Polymorphism? Give three advantages of polymorphism.
- 3. a) Discuss the role of virtual functions in inheritance. What happens if we don't use virtual functions in inheritance? Give sortable example in support of your discussion.
 - b) What are File tream operations? Write a program in C++ to demonstrate the file reading and writing operations.
- 4. a) Explain the concept of parameter passing using call by value and call by reference with suitable examples.
 - b) Compare Run time polymorphism and Compile time polymorphism. Give suitable example of each.
 - c) What is destructor? Explain its use in C++ with the help of an example.
- 5. Write short notes on the following: $4 \times 5 = 20$
 - a) Code Reusability
 - b) 'this' pointer
 - c) Containers and its types in C++
 - d) Stream manipulators

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