

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER- IV EXAMINATION - SUMMER 2020

Subject Code: 2140705 Date:27/10/2020 Subject Name: OBJECT ORIENTED PROGRAMMING WITH C++

Time: 10:30 AM TO 01:00 PM Total Marks: 70

Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks

Q-1	(A)	Write Benefits and Application of OOP.	[3]
	(B)	Write a program to generate the following series (using class fibo): 1 1 2 3 5 8	[4]
	(C)	Explain basic structure of C++ program.	[7]
Q-2	(A)	What is overloading of a function? Explain with an example.	[3]
	(B)	Explain parameterize constructor with example.	[4]
	(C)	Define Operator? Explain any three type of Operator in details.	[7]
	(C)	OR Explain Principles of OOP in details.	[7]
Q-3	(A)	Explain for loop with proper example.	[3]
	(B)	Explain inline function with example.	[4]
	(C)	Explain multiple inheritance with proper example.	[7]
	(C)	OR	[/]
Q-3	(A)	Explain "This" pointer.	[3]
	(B)	What is friend Function? Explain the characteristics of friend function.	[4]
	(C)	Define polymorphism explain compile time and run time polymorphism.	[7]
Q-4	(A)	Define inheritance? List out the type of inheritance.	[3]
	(B)	Explain pure virtual functions in details.	[4]
	(C)	Explain call by value and call by reference with example.	[7]
		OR	
Q-4	(A)	Explain Exception in C++ with example.	[3]
	(B)	Define pointer? Explain pointer and array with example.	[4]
	(C)	Define Destructor .How it is differ from constructor also write the difference between constructor and destructor.	[7]
Q-5	(A)	Define Stream? Explain type of stream.	[3]
	(B)	What is a file mode? Describe the various file mode options available.	[4]
	(C)	Explain different stream classes for console I/O operations in C++.	[7]
		OR	
Q-5	(A)	What is STL? How is it different from the C++ Standard library?	[3]
	(B)	Explain multiple catch with proper example.	[4]
	(C)	Explain Function and Class Templates with appropriate example.	[7]
