Subject Code:140704

Date: 12/12/2018

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV (OLD) EXAMINATION - WINTER 2018

Subject Name: Object Oriented Concepts And Programm	ning
Time: 02:30 PM TO 05:00 PM	Total Marks: 70

Instructions:

1.	Attem	nt all	questions.

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

Q.1	(a) (b)	Explain the basic characteristics of object oriented programming. Describe Three models and relationship between them in detail.	07 07
Q.2	(a) (b)	Explain the generalization and specialization with example. What do you mean by function overloading? Explain it with example. OR	07 07
	(b)	Explain the inline function and default arguments with example.	07
Q.3	(a) (b)	Explain different data types in C++. What is Constructor? Explain constructor overloading with example. OR	07 07
Q.3	(a) (b)	What is default constructor? What is the purpose of parameterized constructor? Explain it with example. What is operator overloading? What are the rules for operator overloading.	07 07
Q.4	(a) (b)	Write a C++ program to check that the given integer number is prime or not. What is object model? Explain it with example. OR	07 07
Q.4	(a) (b)	Write a C++ program to find an average value of n integers stored in array. What is Inheritance? Explain different types of Inheritance.	07 07
Q.5	(a)	Write a program to add private members variables of two classes using friend function.	07
	(b)	Explain Virtual function and abstract class with example.	07
Q.5	(a)	OR What do you mean by type conversion? Write a C++ program to explain basic to user defined data type conversion.	07
	(b)	Explain the looping structures used in C++ program with example.	07
