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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE - SEMESTER-V (Old) EXAMINATION - WINTER 2019

Subject Code: 150704 Date: 02/12/2019

**Subject Name: Object Oriented Programming With Java** 

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) (b)	List out features of JAVA. Explain any three in detail. Give the differences between JAVA and C++.	07 07
Q.2	(a) (b)	Draw and explain the process of building and running JAVA Program.  List out different types of operators in JAVA. Explain Logical and Bitwise Operators in detail.	07 07
		OR	
	<b>(b)</b>	Write a JAVA program to display the following output using 2-D array.  0 1 2	07
		3 4 5	
		6 7 8 9	
Q.3	(a)	Explain method overloading and method overriding in detail.	07
Q.C	(b)	What is command line argument? Explain it with program.	07
		OR	
Q.3	(a)	Explain static keyword in detail using a sample program.	07
	<b>(b)</b>	What is Interface? Write steps to declare and define an interface and explain with sample program.	07
<b>Q.4</b>	(a)	Explain try, catch, throw, throws and finally in detail.	07
	<b>(b)</b>	Draw and explain the life cycle of thread in detail.	07
		OR	
Q.4	(a)	What is Stream Class? Explain input stream class and output stream class in details.	07
	<b>(b)</b>	Explain Runtime Polymorphism with example	07
Q.5	(a)	What is Applet? Draw and explain life cycle of an applet in detail.	07
•	<b>(b)</b>	Explain Delegation Event Model in details.	07
		OR	

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(b) What is Layout Manager? Explain different Layout Managers in JAVA.

Q.5 (a) Explain Label and Button class and their methods in detail.

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