www.FirstRanker.com

			MARK
Q.1	(a)	Explain any three features of JAVA.	03
	(b)	What is a constructor in JAVA? How many types of constructors are there in JAVA? Explain with examples.	04
	(c)	Write a JAVA program to implement the Fibonacci series using for loop control structure.	07
Q.2	(a)	Explain the use of final keyword in JAVA.	03
	(b)	What is a thread? Describe the complete life cycle of thread.	04
	(c)	Write a JAVA program to create a super class called figure that stores the dimensions of a two-dimensional object. It also defines a method called area () that computes the area of an object. The program derives two sub classes from figure. The first is rectangle and the second is Triangle. Each of these subclasses overrides area (), so that it returns the area of a rectangle and a triangle respectively. OR	07
	(c)	Define exception. List java's common exceptions. Write a JAVA	07
		program to generate and handle division by zero arithmetic exception.	
Q.3	(a)	Differentiate multithreading and multiprocessing.	03
	(b)	Differentiate method overloading and method overriding with the help of example.	04
	(c)	Discuss various access modifiers available in JAVA? How access modifier affects the visibility of a member in different access locations?	07
Q.3	(a)	Explain garbage collection and finalization.	03
-	(b)	Explain Super keyword with the help of example.	04
	(c)	Discuss the role of thread synchronization in inter-thread communication? Explain with example.	07
Q.4	(a)	Describe the following methods related to String	03
		i) replace() ii) compareTo()	
	(b)	How package can be created in JAVA? Explain with suitable example.	04
	(c)	Prepare a sequence diagram for hotel management system.	07
0.4	(a)	OR Explain the following terms with respect to exception handling.	03
Q.4	(a)	i) throw ii) finally	05
	(b)	Describe dynamic method dispatch with example.	04
	(c)	Explain activity diagram with the help of an example.	07

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

Subject Code: 2150704

Subject Name: Object Oriented Programming using JAVA

Time: 10:30 AM TO 01:00 PM

Instructions:

FirstRanker.com

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

GUJARAT TECHNOLOGICAL UNIVERSITY

www.FirstRanker.com

Enrowww.FirstRanker.com

Date: 02/12/2019

Total Marks: 70



ARKS

1



O.5

- Explain 'order www.FairstRanker.com (a) diagram.
- Explain generalization in class diagram with example. 04 (b)
- 07 Define object orientation. Explain the stages of object orientation (c) methodology.

OR

Q.5	(a)	Explain metadata with the help of example.	03
	(b)	Discuss link and association in UML with diagram.	04

07 Draw use case diagram for library management system. (c)

the burger com

