



## GUJARAT TWYYFINSTANGICOML UNIVWKSIMMANKER.com

**BE- SEMESTER-V (NEW) EXAMINATION - WINTER 2020** 

Subject Code:2150704	Date:01/02/2021
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Subject Name: Object Oriented Programming using JAVA

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- 1. Attempt any FOUR questions out of EIGHT questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a) (b) (c)	Why java is preferred as a programing language for Internet? List out and explain three main principles of object-oriented programming? What is UML? Briefly discuss class modeling concepts using UML notations.	03 04 07
Q.2	(a) (b) (c)	What are command line arguments and how are they used? What is the purpose of 'this' and 'static' keyword? Write a java program to explain this. What is exception? List out and explain the keywords used to handle exceptions.	03 04 07
Q.3	(a) (b) (c)	What is the use of static import? Explain it giving an example. What are interfaces in java? How do they support polymorphism? What are the uses of 'final' keyword? Write a java program to explain all of them.	03 04 07
Q.4	(a) (b) (c)	What is package? How are they created and used? What is garbage collection? What is the roll of finalize () in it? What are the uses of 'super' keyword? Write a java program to explain all of them.	03 04 07
Q.5	(a) (b) (c)	Differentiate checked exceptions with unchecked exceptions. What is runnable interface? How can you use this interface in creating thread? Write a java program to explain the use of File class and its methods.	03 04 07
Q.6	(a) (b) (c)	Differentiate abstract class with interface. What is the purpose of ServerSocket class? Explain its important methods. Write a program to read the content of a file into a character array and write it into another file. Get names of the files from command line.	03 04 07
Q.7	(a) (b) (c)	What is Collection in Java? Explain the use of Iterator. Explain the following terms: Abstraction, Encapsulation, Polymorphism and Inheritance. What is the purpose of State Model? Define the purpose of following terms with suitable example and UML notations. i)state ii) transition iii) event iv) guard condition	03 04 07
Q.8	(a) (b) (c)	What are the wrapper classes? Explain the use of any one wrapper class. What is the purpose of interaction model? Identify the UML diagrams used to represent this model and explain the objectives of each. Draw the sequence diagrams for the operations performed with the bank account using debit card at ATM	03 04 07

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