Seat No.: _____

GUJARAT TECHNOLOGICAL UNIVERSITY

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

Subject Code:150704	Date: 11/12/2018
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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) Discuss JVM, JRE, Javadoc. Why java is platform independent 07 language? Mention advantages of Java Programming Language.
 - (b) Explain Keyword Final, Finally and Finalize with suitable example. 07
- Q.2 (a) Discuss features and advantages of Abstract. Write one example. 07
 - (b) What is collection in Java? What are different collection classes available 07 in java.

OR

- (b) Write a java program to calculate total and average to five values. Pass 07 input values as constructor parameter.
- Q.3 (a) Discuss i) Applet and Application (ii) Interface
 ii) String class and StringBuffer class
 - (b) Write a java program to input two values as command line parameter and print summation of both values. Discuss Wrapper class functionality here.

OR

- Q.3 (a) Draw and explain lifecycle of Applet. 07
 - (b) Discuss Thread life cycle. Explain wait, notify, notifyall, synchronized **07** methods of thread with example.
- Q.4 (a) Write short note on package. Also discuss steps to create and implement user defined package.
 - (b) What is Exception? How it is handled in Java? List out inbuilt java 07 exception classes. How user can create his own exception class?

OR

- **Q.4** (a) What is inheritance in java? Explain different types of inheritance with **07** proper examples.
 - (b) How we can read input values using Scanner class? Demonstrate with one java example.
- Q.5 (a) Explain user of static and super keyword. What is method overriding in 07 java?
 - (b) Write a Java program to read students data and write it to student.txt file 07 using Java file handling.

OR

- Q.5 (a) Explain Event Handling in java and describe how mouse event and key 07 press events are handled?
 - (b) Explain different layouts in Java Applets with suitable example. **07**

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