

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-V (OLD) EXAMINATION – WINTER 2018****Subject Code:150704****Date: 11/12/2018****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 language? Mention advantages of Java Programming Language. **07**

(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 in java. **07**

OR

(b) Write a java program to calculate total and average to five values. Pass input values as constructor parameter. **07**

Q.3 (a) Discuss i) Applet and Application (ii) Interface **07**
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. **07**

OR

Q.3 (a) Draw and explain lifecycle of Applet. **07**

(b) Discuss Thread life cycle. Explain wait, notify, notifyall, synchronized methods of thread with example. **07**

Q.4 (a) Write short note on package. Also discuss steps to create and implement user defined package. **07**

(b) What is Exception? How it is handled in Java? List out inbuilt java exception classes. How user can create his own exception class? **07**

OR

Q.4 (a) What is inheritance in java? Explain different types of inheritance with proper examples. **07**

(b) How we can read input values using Scanner class? Demonstrate with one java example. **07**

Q.5 (a) Explain user of static and super keyword. What is method overriding in java? **07**

(b) Write a Java program to read students data and write it to student.txt file using Java file handling. **07**

OR

Q.5 (a) Explain Event Handling in java and describe how mouse event and key press events are handled? **07**

(b) Explain different layouts in Java Applets with suitable example. **07**
