

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA INTEGRATED- SEMESTER– III -EXAMINATION – SUMMER 2017

Subject Code: 4430601

Date: 05/05/2017

Subject Name: Java Programming

Time: 02:30 PM to 5:00 P.M.

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) Write down various features of Object oriented programming. **07**
(b) Answer the following:-
(i) How can we achieve multiple inheritance in java? Explain with the help of suitable example. **03**
(ii) Write down the use of final, static keywords. **04**
- Q.2** (a) Differentiate between following
(i) Frame and Applet **04**
(ii) Overloading and Overriding **03**
(b) Explain compare () and compareTo () methods in detail. **07**
- OR**
- (b) Why java is called platform independent, Robust and secured language. **07**
- Q.3** (a) Differentiate between following
(i) Checked and unchecked exception **04**
(ii) Class and interface **03**
(b) Answer the following:
(i) Compare swing and AWT. **04**
(ii) Explain collection framework in brief? **03**
- OR**
- Q.3** (a) Differentiate between following
(i) Local class and container class **04**
(ii) throws and throw statement **03**
(b) Answer the following:
(i) How can we create checked custom exception? Explain it with the help of suitable example. **04**
(ii) Explain finally block and finalize () method with the help of example. **03**
- Q.4** (a) Explain life cycle of Applet with the help of suitable diagram. **07**
(b) Explain synchronized block and synchronized method in detail. **07**
- OR**
- Q.4** (a) Explain any four methods of Object class. **07**
(b) Write short note on **07**
(i) Daemon Threads
(ii) File class
- Q.5** (a) Create a class called Student {rollno, name} along with all possible constructors, getter, and setter methods and also create suitable GUI using frame which can include two labels, two textfields and a button. Put a validation on click of the button that rollno should be number and name should be alphabets. **07**

(b) Explain Event delegation model in detail. **07**

OR

Q.5 (a) Create an applet which displays the “GTU Exam” on each click of left mouse button on a point where the mouse clicked. **07**

(b) Write short note on

(i) Border Layout **03**

(ii) Boxing and Unboxing **04**
