

GUJARAT TECHNOLOGICAL UNIVERSITY**MCA Integrated – SEMESTER – III • EXAMINATION – SUMMER 2018****Subject Code: 4430601****Date: 18-May-2018****Subject Name: Java Programming****Time: 02.30 pm to 5.00 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)** Define the followings: **07**
- (i) UNICODE
 - (ii) Garbage Collector
 - (iii) Final variable
 - (iv) MAP interface
 - (v) Collection
 - (vi) AWT
 - (vii) Method Overriding
- (b)** List and explain principals of java. **07**
- Q.2 (a)** Why java is platform independent? Explain. **07**
- (b)** What is method overloading? Explain with example. **07**
- OR**
- (b)** Explain static member variable and static member function in details. **07**
- Q.3 (a)** What is inheritance? Explain various types of inheritance available in java. **07**
- (b)** Explain the user of super keyword. **07**
- OR**
- Q.3 (a)** What is abstract class? Explain with example. **07**
- (b)** What is package? Explain the steps for creating and using a package. **07**
- Q.4 (a)** What is exception? Explain various types of exception. **07**
- (b)** Explain wrapper class with example. **07**
- OR**
- Q.4 (a)** Explain the custom exception with example. **07**
- (b)** Explain local class with example. **07**
- Q.5 (a)** Why do we require random access file? Explain with example. **07**
- (b)** What are swing components? Explain any two swing components in details. **07**
- OR**
- Q.5 (a)** What is Thread? Draw and explain Thread life cycle. **07**
- (b)** What is Applet? List and explain various tags of Applet. **07**
