

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA– SEMESTER –III EXAMINATION –Summer-2019

Subject Code:2630002

Date: 27-05-2019

Subject Name: Fundamentals of 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) (1) What is package? **07**
(2) What is Java Virtual Machine?
(3) What is advantages of serialization?
(4) Which class is super class of every class?
(5) What is advantages of declaring method as static method?
(6) Name primitive datatypes of Java.
(7) What is use of abstract methods?
- (b) (1) What is the difference between throw and throws keywords? **03**
(2) What is the difference between this() and super() ? **04**
- Q.2** (a) What is the difference between interface and abstract class? **07**
(b) Differentiate String and the StringBuilder classes. **07**
- OR**
- (b) Explain how to use Wrapper class with suitable example. **07**
- Q.3** (a) Explain exception handling with try and catch. Give suitable example. **07**
(b) Demonstrate use of Top level nested classes and Inner classes with suitable example. **07**
- OR**
- Q.3** (a) What is advantages of Set and List interface? Demonstrate how to use various methods of List interface. **07**
(b) What is advantages of comparable and comparator interface? Explain with suitable example. **07**
- Q.4** (a) What is the purpose of the File class? Discuss various properties and methods of File class with suitable example. **07**
(b) Demonstrate how to create multithread in a Java program? **07**
- OR**
- Q.4** (a) What is the purpose of the wait(), notify(), and notifyAll() methods? Discuss life cycle of thread program. **07**
(b) Write significance of OutputStream, Writer classes, InputStream and Reader classes. Write suitable example. **07**
- Q.5** (a) Discuss life cycle of applet in brief. **07**
(b) Discuss various Layout Managers. **07**
- OR**
- Q.5** (a) Explain the component hierarchy for various AWT components. **07**
(b) Discuss Event Delegation Model. Differentiate AWTEvents and Adapter classes. **07**
