

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA Integrated - SEMESTER- III- EXAMINATION – WINTER 2018

Subject Code: 4430601**Date: 29-11-2018****Subject Name: Java Programming****Time: 10.30 am to 1.00 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) Do as Directed. 07**
- (1) _____ method is used to convert String to Integer.
 - (2) _____ class is the super class for every class.
 - (3) _____ method is called by the garbage collector just before deallocation of an instance.
 - (4) The _____ method sets the background color of an applet.
 - (5) Justify, we can create our own subclass of java.lang.Math class.
 - (6) Justify, 'final' can be used to prevent method from being overloaded.
 - (7) Justify, main () method is required to be written in applet.
- (b) Define Following terms 07**
- (1) Shadowing Variable
 - (2) Interface.
 - (3) Instance of
 - (4) Transient
 - (5) enum data type
 - (6) Initializer block
 - (7) getInstance() method
- Q.2 (a) What is package? Explain "java.util" package with example. 07**
- (b) Differentiate between following**
- (1) method overloading and method overriding **02**
 - (2) this and super keyword **02**
 - (3) comparable and comparator Interface **03**
- OR**
- (b) Differentiate between following**
- (4) throw and throws **02**
 - (5) widening conversion and narrowing conversion **02**
 - (6) heavyweight component and lightweight component **03**
- Q.3 (a) What is Wrapper class? Explain any one Wrapper class in java. 07**
- (b) Explain abstract, final and static keyword with example. 07**
- OR**
- Q.3 (a) What is String Buffer? Explain different between String Buffer and String Builder with example 07**
- (b) Explain role of Pattern and Matcher class for handling regular Expression. 07**
- Q.4 (a) What is Thread? How thread is created in java? Explain with example. 07**
- (b) Explain FileOutputStream and FileInputStream. How to read and write data with file. Explain with example. 07**

OR

- Q.4** (a) What is Exception? Explain exception handling by creating custom exception class. **07**
(b) What is enumeration interface? Explain set interface of collection framework. **07**
- Q.5** (a) Explain lifecycle of an applet. Explain various method of the lifecycle of applet. **07**
(b) Explain event delegation model with example. **07**
- OR**
- Q.5** (a) Explain the importance of Graphics, Color and Font class of java.awt package with its method. **07**
(b) What is Layout? List different Layouts and explain Border Layout with example. **07**
