

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V (OLD) - EXAMINATION – SUMMER 2017

Subject Code: 150704

Date: 27/04/2017

Subject Name: Object Oriented Programming With Java

Time: 02:30 PM to 05:00 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) What is Thread? Draw and explain life cycle of thread. 07
(b) Explain Runtime Polymorphism with example 07
- Q.2 (a) Explain inheritance with its types and example. 07
(b) Write a java program to print prime number upto 100. 07
- OR
- (b) Write a java program which check whether entered number is prime or not ? 07
- Q.3 (a) What is package? List various built in package used in java. 07
(b) Read employee salary and calculate the income tax based on 10% of income and store it in tax.txt file for five different employees. 07
- OR
- Q.3 (a) What is collection in Java? Differentiate between Vector and Array List. 07
(b) Name three types of layout managers and briefly explain their operations. 07
- Q.4 (a) Discuss public, private, protected and default access modifier with example. 07
(b) Explain following key words: this, super, instance of, static. 07
- OR
- Q.4 (a) Write a java program which read numbers from number.txt file and store even number to even.txt and odd number into odd.txt file. 07
(b) What is an Exception? Explain Exception handling in JAVA. 07
- Q.5 (a) Write a java network example to print server date and time on client machine. 07
(b) Differentiate Abstract class and interface with suitable example. 07
- OR
- Q.5 (a) Write an application that read limit from user and executes two threads. One thread displays total of first n even numbers & another thread displays total of first n odd numbers. Create the threads by implementing the Runnable interface. 07
(b) Write a program to check that whether the name given from command line is file or not? If it is a file then print the size of file and if it is directory then it should display the name of all files in it. 07
