

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
T3 EXAMINATION- MAY 2019

COURSE CODE: 10B11CI311

MAX. MARKS: 35

COURSE NAME: OBJECT-ORIENTED PROGRAMMING

COURSE CREDITS: 3

MAX. TIME: 2 Hrs.

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.

- Q1. Write short notes on: [2×5]
- Method overloading and overriding
 - Super keyword and Final modifier
 - telg() and tellp()
 - Virtual Function
 - JVM
- Q2. i. In java only single class can be extended, if there is need to extend more than one class, how can this be achieved? [2×2.5]
ii. Write a small java program containing user defined exceptions.
- Q3. i. How Packages differ from Interfaces? Explain it with a suitable example program to calculate student marks statement. [2×2.5]
ii. Write a Java program to find the area and perimeter of square and circle using interface.
- Q4. i. Explain about Exception Handling in Java with examples. [2×2.5]
ii. Write a program to create two threads, one thread will print odd numbers and second thread will print even numbers between 1 to 10 numbers.
- Q5. i. What is the difference between process based and thread-based multitasking? [5]
Give the two way by which a thread can be creating using java. Write a short program to demonstrate the creation of new thread by extending the thread class.
- Q6. i. Explain the AWT hierarchy and set button using component class. [2×2.5]
ii. What are the Applet's Life Cycle methods? Explain them?