

**DEPARTMENT OF COMPUTER SCIENCE & TECHNOLOGY**  
**"T1 Examination, AUG-2018"**

**Semester:** 3rd  
**Subject:** Object Oriented Programming Using Java  
**Branch:** CSE  
**Course Type:** Core  
**Time:** 90 Minutes  
**Program:** B.Tech.

**Date of Exam:** 31/08/18  
**Subject Code:** CSH206-T  
**Session:** II  
**Course Nature:** Hard  
**Max.Marks:**30

**Signature:** HOD/Associate HOD: 

**Note:** Part A: All questions are compulsory. Each Question carries 2 marks.  
Part B: Attempt any two questions. Each Question carries 10 marks.

**PART-A**

- Q1. (a) Differentiate between encapsulation & abstraction.  
(b) Differentiate between conditional & looping constructs.  
(c) What is instance & class variable? Explain with the help of an example.  
(d) Predict the output of the following code:

Class Test

```
{  
    int x,y;  
    public static void main(String args[])  
    {  
        Test t = new Test();  
        System.out.println(t.x+" "+t.y);  
    }  
}
```

- (e) Write a java program to print a welcome message on the console.

**PART-B**

- Q2. (a) Write a java program that creates two classes "Room" & "RoomArea". The first class does the initialization part for length & breadth and the second class calculates & prints the area of the room. [5]  
Q2. (b) Briefly mention the general structure of java program. [5]  
Q3. (a) Mention the data types in java with their memory requirements and default values in tabular form. [5]  
Q3. (b) Briefly describe the process of compilation & execution of code in java with significance of JVM. [5]  
Q4. (a) Write a program in java that will count number of even & odd entries in an array initialized with values. [5]  
Q4. (b) Describe the use of command line arguments in java with an example. [5]

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