第四周复习

易翔

建议 30 分钟内完成。

一、判断题　共 3 小题

1. Instance methods in a class can also be overloaded.　_T_

2. __gcd is a valid name of a variable.　_T_

3. Static methods can be called without being instantiated.　_T_

二、单项选择题　共 5 小题

1. Which of the following words is not a Java reserved word?　_D_　⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯（　）

   A. throw   B. short   C. extends   D. instance

2. Which of the following is NOT a valid way to declare an array?　_C_　⋯⋯⋯⋯⋯⋯⋯（　）

   A. int[] a = new int[12];   B. char b[] = {'1'};

   C. long c[] = new long[2]{1L, 3L};   D. boolean[] d; d = new boolean[2];

3. What will the console output after executing the following statement?　_D_

   int t = 6;

   System.out.print(t ++ + ++ t);　⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯（　）

   A. Occur Compile Error   B. 12

   C. 13   D. 14

4. The following is part of the code in the program. Which line of the statement will report a runtime error?　_D_

   byte i = 5;

   System.out.print((int) i);

   i = i + 1;　⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯（　）

   A. There is no error.   B. Line 1

   C. Line 2   D. Line 3

5. What will the console output after executing the following statement?　_C_

char[] chars = new char[]{'1', '2', '3'};

System.out.println(chars); ……………………………………………………………… (   )

  A. Occur Compile Error

                                                             B. Out-put the address of the array

  C. 123

                                                             D. ['1', '2', '3']

三、简答题　　共 1 小题

1. Now you are ask to recursively(递归地) approach a method to calculate factorial(阶乘) of a nonnegative integer n.

public static int factorial (int n) {

    // implement your code here.

}　略