JAVA 1

Total points   14/20

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✕   0/1

```
Consider the following code fragment
Rectangle r1 = new Rectangle();
r1.setColor(Color.blue);
Rectangle r2 = r1;
r2.setColor(Color.red);

After the above piece of code is executed, what are
r2 (in this order)?
```

🔘 (a) Color.blue, Color.red   ✕

⭕ (b) Color.blue, Color.blue

⭕ (c) Color.red, Color.red

⭕ (d) Color.red Color.blue

⭕ (e) None of the above.

Correct answer

🔘 (c) Color.red, Color.red

✕ An abstract data type typically comprises a ……………. and a set   0/1
of ………………. respectively.

    ◉ (a) Data representation, classes   ✕

    ○ (b) Database, operations

    ○ (c) Data representation, objects

    ○ (d) Control structure, operations

    ○ (e) Data representation, operations.

Correct answer

    ◉ (e) Data representation, operations.

✓ Multiple inheritance means,   1/1

    ◉ (a) one class inheriting from more super classes   ✓

    ○ (b) more classes inheriting from one super class

    ○ (c) more classes inheriting from more super classes

    ○ (d) None of the above

    ○ (e) (a) and (b) above.

✕ Which one of the following is not true?   0/1

○ (a) A class containing abstract methods is called an abstract class.

○ (b) Abstract methods should be implemented in the derived class.

○ (c) An abstract class cannot have non-abstract methods.

○ (d) A class must be qualified as 'abstract' class, if it contains one abstract
     method.

◉ (e) None of the above.   ✕

Correct answer

◉   (c) An abstract class cannot have non-abstract methods.

✗ All exception types are subclasses of the built-in class   0/1

   ⦿ (a) Exception   ✗

   ○ (b) Runtime Exception

   ○ (c) Error

   ○ (d) Throwable

   Correct answer

   ⦿ (d) Throwable

✓ Which statement is not true in java language?   1/1

   ○ (a) A public member of a class can be accessed in all the packages.

   ⦿ (b) A private member of a class cannot be accessed by the methods   ✓
       of the same class.

   ○ (c) A private member of a class cannot be accessed from its derived
       class.

   ○ (d) A protected member of a class can be accessed from its derived
       class.

   ○ (e) None of the above.

✓

What will be printed as the output of the following

```
public class testincr
{
public static void main(String args[])
{
int i = 0;
i = i++ + i;
System.out.println("I = " +i);
}
}
```

○ (a) I = 0

◉ (b) I = 1   ✓

○ (c) I = 2

○ (d) I = 3

✓ The default value of a static integer variable of a class in Java 1/1
is,

🔘 (a) 0   ✓

⭕ (b) 1

⭕ (c) Garbage value

⭕ (d) Null

✓ Which of the following is true?   1/1

⭕ (a) A finally block is executed before the catch block but after the try
block.

⭕ (b) A finally block is executed, only after the catch block is executed.

🔘 (c) A finally block is executed whether an exception is thrown or not.   ✓

⭕ (d) A finally block is executed, only if an exception occurs.

⭕ (e) None of the above

✓ An overloaded method consists of,   1/1

   ◯ (a) The same method name with different types of parameters

   ◯ (b) The same method name with different number of parameters

   ◯ (c) The same method name and same number and type of parameters with different return type

   ◉ (d) Both (a) and (b) above   ✓

   ◯ (e) (a), (b) and (c) above.

✓   1/1

```
class prob1{
int puzzel(int n){

int result;

if (n==1)
return 1;
result = puzzel(n-1) * n;
return result;
}
}

class prob2{

public static void main(String args[])

{

prob1 f = new prob1();

System.out.println(" puzzel of 6 is = " + f.puzzel(6));

}
}
```

Which of the following will be the output of the above program?

○ (a) 6

○ (b) 120

○ (c) 30

◉ (d) 720   ✓

○ (e) 12

✓ To prevent any method from overriding, we declare the method as,   1/1

○ (a) static

○ (b) const

◉ (c) final   ✓

○ (d) abstract

○ (e) none of the above.

✓ The java run time system automatically calls this method while garbage collection.   1/1

○ (a) finalizer()

◉ (b) finalize()   ✓

○ (c) finally()

○ (d) finalized()

✕ Which of the following statements about Java Threads is   0/1
   correct?

    ◯ a) Java threads don't allow parts of a program to be executed in parallel

    ◯ (b) Java is a single-threaded language

    ◉ (c) Java's garbage collector runs as a high priority thread   ✕

    ◯ (d) Ready, running and sleeping are three states that a thread can be in
       during its life cycle

    ◯ (e) Every java application is not multithreaded.

Correct answer

    ◉ (d) Ready, running and sleeping are three states that a thread can be
       in during its life cycle

✓ When an overridden method is called from within a subclass, 1/1
   it will always refer to the version of that method defined by the

   ○ a) Super class

   ⦿ (b) Subclass   ✓

   ○ (c) Compiler will choose randomly

   ○ (d) Interpreter will choose randomly

   ○ (e) None of the abvove.

✕ What is garbage collection in the context of Java?   0/1

   ○ (a) The operating system periodically deletes all the java files available on
       the system.

   ○ (b) Any package imported in a program and not used is automatically
       deleted.

   ○ (c) When all references to an object are gone, the memory used by the
       object is automatically reclaimed.

   ○ (d) The JVM checks the output of any Java program and deletes anything
       that doesn't make sense.

   ○ (e) Janitors working for Sun Micro Systems are required to throw away
       any Microsoft documentation found in the employees' offices.

✓ A constructor   1/1

○   (a) Must have the same name as the class it is declared within.

○   (b) Is used to create objects.

○   (c) May be declared private

○   (d) Both (A) and (B) above

◉   (e) (a), (b) and (c) above.   ✓

What is the output of the following program:

```java
public class testmeth
{
static int i = 1;
public static void main(String args[])
{
System.out.println(i+" , ");
m(i);
System.out.println(i);
}
public void m(int i)
{
i += 2;
}
}
```

○ (a) 1 , 3

○ (b) 3 , 1

● (c) 1 , 1   ✓

○ (d) 1,0

✓   1/1

Consider the following statements about Java packages:

I. Packages don't provide a mechanism to partition all class names into more manageable
chunks.

II. Packages provide a visibility control mechanism.

III. One of the important properties of a package is that all classes defined inside a
package is accessible by code outside that package.

IV. The .class files for classes declared to be part of a package can be stored in
multiple directories.

○ Which of them is correct?

○ (a) Only (I) above

◉ (b) Only (II) above   ✓

○ (c) Only (III) above

○ (d) Only (IV) above

✓ What is byte code in the context of Java?   1/1

◉ (a) The type of code generated by a Java compiler.   ✓

○ (b) The type of code generated by a Java Virtual Machine.

○ (c) It is another name for a Java source file.

○ (d) It is the code written within the instance methods of a class.

○ (e) It is another name for comments written within a program.

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