EXCEPTION – PRACTICE QUESTIONS

Question 1:

```
class Test extends Exception { }


class Main {
  public static void main(String args[]) {
    try {
      throw new Test();
    }
    catch(Test t) {
      System.out.println("Got the Test Exception");
    }
    finally {
      System.out.println("Inside finally block ");
    }
 }
}
```

Options:

1. Got the Test Exception
   Inside finally block
2. Got the Test Exception
3. Inside finally Block
4. Compilation Error

Question 2:

```
class Base extends Exception {}
class Derived extends Base  {}

public class Main {
  public static void main(String args[]) {
   // some other stuff
   try {
      // Some monitored code
      throw new Derived();
    }
    catch(Base b)     {
      System.out.println("Caught base class exception");
    }
    catch(Derived d)  {
      System.out.println("Caught derived class exception");
    }
  }
}
```

Options:

1. Caught base class exception
2. Caught derived class exception
3. Compiler Error because derived is not throwable
4. Compiler Error because base class exception is caught before derived class

Question 3:

```
class Test
{
   public static void main (String[] args)
   {
      try {
         int a = 0;
         System.out.println ("a = " + a);
         int b = 20 / a;
         System.out.println ("b = " + b);
      } catch(ArithmeticException e)
      {
         System.out.println ("Divide by zero error");
      } finally
      {
         System.out.println ("inside the finally block");
      }
   }
}
```

Options:

1. Compile error
2. Divide by zero error
3. a = 0
   Divide by zero error
   inside the finally block
4. Compiler Error because base class exception is caught before derived class
5. Inside finally Block

Question 4:

```
class Test
{
   public static void main(String[] args)
   {
      try {
         int a[]= {1, 2, 3, 4};
         for (int i = 1; i <= 4; i++)
         {
            System.out.println ("a[" + i + "]=" + a[i] + "n");
         }
      }
      catch (Exception e)
      {
         System.out.println ("error = " + e);
      }
      catch (ArrayIndexOutOfBoundsException e)
      {
         System.out.println ("ArrayIndexOutOfBoundsException");
      }
   }
}
```

Options:

1. Compile error
2. Runtime Error
3. ArrayIndexOutOfBoundsException
4. Error Code is printed
5. Array is printed

Quesiton 5:

```
public class Test{
    static int x[];

    static{
        x[0] = 1;
    }

    public static void main(String args[]){
    }
}
```

Options:

1. ArrayIndexOutOfBoundsException is thrown
2. ExceptionInInitializerError is thrown
3. IllegalStateException is thrown
4. StackOverflowException is thrown
5. None of these

ANSWERS:

1. 1
2. 1
3. 3
4. 1
5. 2