1. Why do we need exception handling?

2. When is a system error encountered and what can we do about it?

3. Exceptions can be both checked or unchecked? Yes/no?

4. What are the ways in which we can handle an exception created by our code?

5. Which statements will be executed for the following pseudo-program when the main function1 is called?

```
main function1 {
    try{
        statement 1;
        call function2;
        statement2;
    }
    catch(Exception1 ex1){
        statement3;
    }
    statement4;
}
```

```
function2
throws Exception1{
    try{
        statement5;
        call function3;
        statement6;
    }
    catch(Exception2 ex2){
        statement7;
    }
    statement8;
}
```

```
function3
throws Exception1, Exception2{
    try{
        statement9;
        throw new Exception3;
        statement10;
    }
    catch(Exception3 ex3){
        statement11;
    }
    statement12;
}
```

6. Which statements will be executed for the following pseudo-program when the main function1 is called?

```
main function1 {
    try{
        statement 1;
        call function2;
        statement2;
    }
    catch(Exception1 ex1){
        statement3;
    }
    statement4;
}
```

```
function2
throws Exception1{
    try{
        statement5;
        call function3;
        statement6;
    }
    catch(Exception2 ex2){
        statement7;
    }
    statement8;
}
```

```
function3
throws Exception1, Exception2{
    try{
        statement9;
        throw new Exception2;
        statement10;
    }
    catch(Exception3 ex3){
        statement11;
    }
    statement12;
}
```

7. Which statements will be executed for the following pseudo-program when the main function1 is called?

```
main function1 {
     try{
          statement1;
          call function2;
          statement2;
     }
     catch(Exception1 ex1){
          statement3;
     }
     statement4;
}
```

```
function2 throws Exception1{
     try{
          statement5;
          call function3;
          statement6;
     }
     catch(Exception2 ex2){
          statement7;
     }
     finally{
          statement8;
     }
}
```

```
function3
throws Exception1, Exception2{
     try{
          statement9;
          throw new Exception2;
          statement10;
     }
     catch(Exception3 ex3){
          statement11;
     }
     finally{
          statement12;
     }
}
```

8. What might be motivation for a programmer to define custom exception classes?