**Config file:**

1. What is the purpose of the config.inc.php file?

The config.inc.php contains all the general configuration code for how the app is supposed to function.

1. Which super global array, and what key in the array, is used to automatically detect if the application is running on a dev server or a live server?

The $\_SERVER super global array and the SERVER\_NAME key are used to detect if the application is running on a dev or live server.

1. How does the get\_link() method get the information it needs to connect to the database? In other words, where does it get the db user acoount, password, host, and database name?

The db user account, password, host, and database name are defined as constant variables.

1. The get\_linK() function 'wraps' a built-in php function that  connects to the database. What is the name of that function? In other words, what php function would you use to connect to a MySQL database? Explain the parameters that you pass into the function.

mysqli\_connect(). The parameters passed into the function are the db host, user, password, and name.

1. The **define()** function is used a lot in the config file, what does the define() function in php do?

The define() function is used to create constants.

1. What does the custom error handler function do with error messages when the DEBUG constant set to false?

The custom error handler sends all of the relevant information (including super global arrays) to the admin email.

1. Explain the difference between an **exception** and an **error**.

An error cannot be handled and causes a program to crash. Exceptions can be handled, and if they are handled properly they will not cause the program to crash.

**Model and Contact classes:**

1. What is a **model object**?

A model object is an object that represents a table in the database.

1. What is an **abstract class**?

An abstract class is a class that contains abstract methods. They are similar to interfaces, but unlike interfaces, abstract classes can also contain methods that are fully defined.

1. Explain why you cannot instantiate and abstract class.

Abstract classes cannot be instantiated as they are not fully defined.

1. If you extend an abstract class you must implement the code for which methods in that class?

If an abstract class is extended, the abstract methods in the abstract class must be implemented in the child class.

1. What methods does the Contact class inherit from the Model class?

All of them.

1. How do you create a constructor function in PHP?

A constructor in PHP is defined in a class. The function is called \_\_construct(), and accepts an associative array to set the instance variables of the object.

1. T/F – If you don’t like the way the Model class implements the toXML(), toCSV(), and toJSON() methods, you could override them in a sub class.

True

**DataAccess and ContactDataAccess classes:**

1. What is a **data access object (DAO)**, what is its purpose?

A DAO has all the methods that get the data from a database and use the data to create instances of a model object.

1. Explain the parameter that must be passed into the DataAccess constructor function.

The parameter that is passed into the DataAccess constructor is the connection to the database.

1. What is the super class of the ContactDataAccess class?

DataAccess is the super class of ContactDataAccess.

1. What instance variable does the ContactDataAccess class inherit from its super class?

$link

1. What methods does the ContactDataAccess class inherit from its super class?

All of them.