

1. which description best describes the hash() function in php
 - a. is a method which takes the user password (a variable-length sequence of characters) and encrypts it to a fixed-length password containing random characters from a larger set.²
 - b. function returns a hashed string using DES, Blowfish, or MD5 algorithms.
 - c. comes with dozens of different algorithms, or *ciphers*, each of which encrypts data differently
 - d. function returns the encoded string or a string shorter than 13 characters
 - e. will return a hashed string using the standard Unix DES-based algorithm or alternative algorithms that may be available on the system.
2. Mysql: uploading a picture to phpMyAdmin/mysql, the variable type in the database for the picture must be what kind?
 - a. blob
 - b. content
 - c. longtext
 - d. multi point
 - e. set
3. object oriented php: The following line accomplished what task
`$obj->name = $_POST["name"];`
 - a. the object (obj) is saying input the data of the variable “name” to the data base under the name section of the database
 - b. the object (obj) is saying retrieve the data of the variable “name” from the data base under the name section of the database.
 - c. Output the value of variable “name”
 - d. Is setting the obj variable “name” equal to null
 - e. Creating an object called obj.
 - f. Creating an object called obj from the class name.
4. CRUD application: Which line of code will add data to a database

- a. `$sql = "INSERT INTO customers (name, email, mobile) values(?, ?, ?)";`
 - b. `$pdo = "INSERT INTO customers (name,email,mobile) values(?, ?, ?)";`
 - c. `$sql = "SELECT * FROM customers where id = ?";`
 - d. `$pdo = "SELECT * FROM customers where id = ?";`
 - e. `$sql = "DELETE FROM customers WHERE id = ?";`
5. session control / login: in an object-oriented crud application, like the one we used in class. The function

```
if(!isset($_SESSION["email"])){  
    $_SESSION["email"] = $email;  
    header ("Location: login.php");  
}
```

Should be placed at the top of what page

- a. index.php
 - b. .class.php
 - c. login.php
 - d. database.php
 - e. logout.php
6. file upload / download: `if (!file_exists($fileLocation))`

```
mkdir ($fileLocation, 0777,true);
```

The function above accomplished what task

- a. makes directory for file, if a directory does not exist.
 - b. creates a directory for the uploaded file even if one exists, and overwrites it existing one.
 - c. Creates a file column in the database being used for the file, and all future files.
 - d. Stores the file in the database
 - e. Stores the file in the subdirectory and overwrites any existing with same name.
7. web service, AJAX and/or JSON: which code snippet represent an Ajax request to a php file through URL.

- a. `$.ajax({url: "demo_test.txt", success: function(result)})`
- b. `xhttp.open("GET", customer.php", true);`
- c. `xhttp.open("POST", customer.php", true);`
- d. `$.Xhttp({ url: "demo_test.txt", success: function(result)})`;
- e. `document.getElementById("body").innerHTML = xhttp.responseText;`