

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
 - a. 1
 - b. 2
 - c. 3
 - d. 4
 - e. 5
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. customer.php
 - b. customer.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;`