

# CSCI 297 Final Exam Review

These questions give you an idea of the style and depth of questions that will be on the Final Exam. This is not a comprehensive list of everything that might appear on the exam.

1. Why must I make my PHP scripts readable by all before they will run?
2. Suppose you are writing a PHP script to process an HTML form.
  - a. Why is it better to have one script create the form and a different script process the form?
  - b. Why is it better to have a single script both write and process the form?
3. How can JavaScript help you process an HTML form?
4. PHP has output functions, like echo, but no input functions. Why?
5. I wrote a script to write some debugging data into a temporary file named "/tmp/dannelly". Why can I not edit the file with the vi editor?
6. What does the following mean? And why would anyone write something like that?  

```
$C = ($A > $B) ? $A : $B;
```
7. Variables in PHP are not typed. Why is that good? Why is that bad?
8. What is the purpose of the PHP "foreach" statement?
9. Is this legal in PHP? If so, what does it do?  

```
$animal[] = "aardvark";  
$animal[] = "bat";  
$animal[] = "cat";
```
10. What is an associative array? Give an example of when they are useful.
11. The PHP "explode" function accepts a string composed of words separated by whitespace and returns an array of separate words. Write a function that is the opposite of explode.
12. When is it better to transmit data from the client to the server via POST instead of GET? When is it appropriate to use GET?
13. What's the difference in these comments?  

```
// comment one  
<!-- comment two -->
```
14. The function nl2br turns all newline characters (\n) in a string into <br> HTML tags. Why would that ever be helpful?
15. What is database normalization? And, what is its purpose?
16. Suppose I have a table in a MySQL database and I want to display every records' data inside an HTML table. What are the steps to have a PHP script do that?
17. Given the table below, write a MySQL statement to insert a new record.
18. Given the table below, write a MySQL statement to find the WID of each student in CSCI 297.

Registrations				
WID	Name	Address	Semester	Course
12345	Bob Smith	123 Main, Rock Hill, SC, 29733	Fall 2019	CSCI297