Web Languages and Technologies

Name: _____

Number: _____

1 val.

1. In as news site, what is the most semantically correct way to describe an important news item?

   ○ `<article class="important">...</article>`

   ○ `<div id="important" class="newsitem">...</div>`

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   ○ `<div id="newsitem" class="important">...</div>`

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2. When examining some server logs, a system admnistrator noticed the following HTTP request:

   ```
   post_comment.php?title=&body=<script>window.onload = function() {var link=document.
   getElementsByTagName("a");link[0].href="http://do-something.com/";}</script>
   ```

   What kind of vulnerability was being exploited?

   ○ Cross-Site Request Forgery

   ○ Javascript Vulnerability

   ○ SQL Injection

   ○ Cross-Site Scripting

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3. Passwords should always be cyphered using a secure hashing algorithm. What kind of attack is prevented by using different *salts* for each password?

   ○ Brute Force

   ○ Dictionary Attack

   ○ Rainbow Tables

   ○ Man in the Middle Attack

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4. Where are session variables stored in PHP?

   ○ Files on the server

   ○ Proxy servers

   ○ Cookies on the browser

   ○ Browser address bar

5. What is printed when the following PHP code is executed?

```php
1   <?php
2     $foo = 10;
3
4     function add_to_foo($value) {
5       $foo = $foo + $value;
6     }
7
8     add_to_foo(5);
9     echo $foo;
10  ?>
```

6. Why must the initialization code of *jQuery* be called inside a *ready event handler* instead of being called directly?

```javascript
1   $(document).ready(setUp);
2
3   function setUp() {
4     // code goes here
5   }
```

7. Explain briefly what we mean when we say that the HTTP protocol is a stateless protocol.

8. What is the main objective of the XSD language?

- ○ Generate XML files
- ○ Print XML files
- ○ Compile XML files
- ○ Validate XML files