Web Languages and Technologies

Faculdade de Engenharia da Universidade do Porto
30th January 2015

Duration: 2h / No Consultation

Name: _____

Number: _____

1 val.   1. In as news site, what is the most semantically correct way to present the title of a news item?

○ `<article><h1 class="header">Título</h1>...</article>`

○ `<article><header><h1>Título</h1></header>...</article>`

○ `<article><span class="header"><h1>Título</h1></span>...</article>`

○ `<article><div class="header"><h1>Título</h1></div>...</article>`

1 val.   2. An user receives an email with the following link:

`<a href="http://www.example.com/user/profile/action_delete.php">Funny Cats</a>`

What kind of vulnerability was being exploited?

○ SQL Injection

○ Cross-Site Scripting

○ Javascript Vulnerability

○ Cross-Site Request Forgery

1 val.   3. Which one of these strategies, is a good strategy to prevent *brute force* attacks on passwords?

○ Use slow *hashing* functions

○ Use two *salts* for each password

○ Do not allow repeated passwords

○ *Hash* the passwords several times

1 val.   4. In PHP, the *strpos* function returns the position, starting in 0, of the first occurrence of a *string* inside another *string*; or *false* if the *string* is not found. After the following code, which is the correct way to test if the *string* has not been found?

`$pos = strpos($search, $test);`

○ `if (!$pos) echo "Not found";`

○ `if ($pos != true) echo "Not found";`

○ `if ($pos === false) echo "Not found";`

○ `if ($pos == false) echo "Not found";`

| 1 val. | 5. In PHP, what elements will be present in the array *$a* after running the following code? |

```php
1  <?php
2    $a = array(0, 1, 2, 3);
3    foreach ($a as $k => $v)
4       $a[$k]++;
5  ?>
```

(1,2,3,4)

| 1 val. | 6. Explain, briefly, what is the $ symbol in jQuery. |

| 1 val. | 7. In the *HTTP* protocol, methods *GET* and *HEAD* are considered *idempotent*. Explain, briefly, what does that mean. |

São métodos que independentemente da instância a que estão a ser chamados, o resultado obtido será sempre o mesmo.

| 1 val. | 8. In XSD, how do we define an element that can contain both other elements and text? |

- ○ With a *mixed simpleType*
- ○ With a *complex type*
- ○ With a *mixed complexType*
- ○ With a *simpleType*