Mid Term

Q1 to Q10 below refer to JavaScript

Code example 1-1:

```
var timesTable = [];
for (var i = 0; i < 5; i++) {
    timesTable[i] = [];
}
for (var i = 0; i < 5; i++) {
    for (var j = 0; j < 5; j++) {
        timesTable[i][j] = i * j;
    }
}
```

1. (Refer to code example 1-1) This code creates a tabular structure that has

   a. 5 rows and 5 columns
   b. 5 rows and 4 columns
   c. 4 rows and 4 columns
   d. 4 rows and 5 columns

2. Given the following code, which of the following statements displays "John Smith is 29"?

```
var employee = [];
employee["name"] = "John Smith";
employee["age"] = 29;
```

   a. `alert(employee[0] + " is " + employee[1]);`
   b. `alert(employee[1] + " is " + employee[2]);`
   c. `alert(employee["name"] + " is " + employee["age"]);`
   d. `alert(employee["name"][0] + " is " + employee["age"][0]);`

3. Given a Date object named due_date, which of the following statements sets the month to February?

   a. `due_date.setMonth(1);`
   b. `due_date.setMonth(2);`
   c. `due_date.setMonth("Feb");`
   d. `due_date.setMonth("February");`

4. What text does the following code display in a dialog box?

```
alert("The file is in \"C:\\My Documents\"");
```

   a. `The file is in C:\My Documents`
   b. `The file is in "C:\My Documents"`
   c. `The file is in C:\\My Documents\`
   d. `The file is in "C:\\My Documents\"`

5. What is displayed when the following code executes?

```
var rate = 0.1;
if ( isNaN(rate) ) {
    alert("Rate is not a number.");
}
```

```
else if (rate < 0) {
    alert("Rate cannot be less than zero.");
}
else if (rate > 0.2) {
    alert("Rate cannot be greater than 20%.");
}
else {
    alert("Rate is valid.");
}
```

a. Rate is not a number.
b. Rate cannot be less than zero.
c. Rate cannot be greater than 20%.
d. Rate is valid.

6. What is displayed when the following code executes?

```
var statusCode = "403";
switch ( statusCode ) {
    case "200":
        alert("OK");
        break;
    case "403":
        alert("Forbidden");
        break;
    case "404":
        alert("Not Found");
        break;
    default:
        alert("Unknown Status");
        break;
}
```

a. OK
b. Forbidden
c. Not Found
d. Unknown Status

7. What is the value of the message variable after the following code executes?

```
var message = "";
for (var i = 0; i < 5; i++ ) {
    message += "L:" + i + ",";
}
```

a. `L:5,`
b. `L:0,L:1,L:2,L:3,L:4,`
c. `L:0,L:1,L:2,L:3,L:4,L:5,`
d. `L:1,L:2,L:3,L:4,L:5,`

8. Assume that the buttonClick variable stores a reference to the event handler and the button variable stores a reference to the button node. Which one of the following parameter lists is correct for the jsLib.event.add method?

a. `("onclick", button, buttonClick)`
b. `("click", buttonClick, button)`
c. `(button, "click", buttonClick)`
d. `(button, buttonClick, "onclick")`

9. Which event is triggered when the user moves the mouse into an element?

a. mousemove
b. mousein
c. mouseon
d. mouseover

10. The following code displays

```
var text = "A111-B222-C333";
if (/^\d{4}-\d{4}-\d{4}-\d{4}$/.test(text)) {
    alert("Valid1.");
} else if (/^\d{4}-\d{4}-\d{4}$/.test(text)) {
    alert("Valid2.");
} else {
    alert("NOT Valid.");
}
```

a. Valid1.
b. Valid2.
c. NOT Valid.

Q11- Q20 below refer to PHP

11. To code a constructor for a class named Cart that requires two arguments, you start with this code:

a. `public function Cart($arg1, $arg2) {`
b. `public function __construct($arg1, $arg2) {`
c. `private function Cart($arg1, $arg2) {`
d. `private function __construct($arg1, $arg2) {`

12.   To call a static method named randomize in a class named Cart, you code

a. `Cart->randomize()`
b. `Cart->$randomize()`
c. `Cart::randomize()`
d. `Cart::$randomize()`

13. Which of the following statements is NOT a valid way to create a timestamp named $birthdate that represents December 2, 1969?

a. `$birthdate = mktime(0, 0, 0, 12, 2, 1969);`
b. `$birthdate = mktime(12, 2, 1969);`
c. `$birthdate = strtotime('1969-12-02');`
d. `$birthdate = strtotime('12/02/1969');`

Code example 1-2

```
$current_date = new DateTime();
$due_days_diff = $current_date->diff($due_date);
if ($current_date > $due_date) {
    $overdue_message = $due_days_diff->format(
        '%y years, %m months, and %d days overdue.');
}
```

14. (Refer to code example 1-2) If $due_date contains a DateTime object for a date that comes 1 month and 7 days before the date stored in the $current_date variable, what will $overdue_message contain when this code finishes executing:

a. `0 years, 1 months, and 7 days overdue.`

b. `-0 years, -1 months, and -7 days overdue.`

c. `1 month and 7 days overdue.`

d. $overdue_message won't be set because the if clause won't be executed

15. Which date string matches the pattern that follows?

`/^[01]?\d\/[0-3]\d\/\d{4}$/`

a. `"2/4/68"`
c. `"02/04/68"`
b. `"2/44/1968"`
d. `"02/34/1968"`

ANS: D   REF: 477   OBJ: 15-A-01

16. This pattern can be used to validate a five-digit zip code:

a. `/[d5]/`
c. `/^\d{5}$/`
b. `/+\d[5]?/`
d. `/$\d5^/`

17. If you want to code a catch block that catches all types of exceptions and gets the message associated with the exception, you start the catch block like this:

a. `catch (Exception $e) {`

b. `catch (PDOException $e) {`

c. `catch (Exception, $e) {`

d. `catch (PDOException, $e) {`

Code example 1-3

```
function get_product($product_id) {
    global $db;
    $query = "SELECT * FROM products
            WHERE productID = '$product_id'";
    $product = $db->query($query);
    $product = $product->fetch();
    return $product;
}
```

18. (Refer to code example 1-3) Which of the following is a proper PHP statement for calling the function in this example and storing the returned result in a variable named $product.

a. `$product = get_product($product_id);`

b. `$product = get_product(product_id);`

c. `$product = $get_product($product_id);`

d. `$product = $get_product(product_id);`

19. What does $message contain after the following code executes?

```
$statusCode = "403";
switch ( $statusCode ) {
    case "200":
        $message = "OK";
```

```
            break;
        case "403":
            $message = "Forbidden";
            break;
        case "404":
            $message = "Not Found";
            break;
        default:
            $message = "Unknown Status";
            break;
    }
```

a. OK

b. Forbidden

c. Not Found

d. Unknown Status

20. Assume that the POST method is used. Which of the following statements gets the value of the radio button that's on in the delivery group and stores it in a variable named $card_type?

```
<input type="radio" name="delivery" value="USPS" />USPS
<input type="radio" name="delivery" value="FedEx" />Federal Express
<input type="radio" name="delivery" value="UPS" />UPS
```

a. `$card_type = isset($_POST['delivery'];)`

b. `$card_type = isset($_POST['card_type'];`

c. `$card_type = $_POST['delivery'];`

d. `$card_type = $_POST['card_type'];`