

## Model paper

### Part A

- |        |     |
|--------|-----|
| 1) ① b | ⑥ a |
| ② a    | ⑦ c |
| ③ d    | ⑧ a |
| ④ d    | ⑨ a |
| ⑤ c    | ⑩ b |

Explanation

• (dot) is used to combine two parts of the statement.  
eg:- (\$num. "Hello World" )  
output → 1 Hello world .

### Question 1

- 1.) GET is used to request data from a specific resource.  
POST is used to send data to a server to create / update a resource.

For secure data such as password and username ,  
POST method is used.

- 2.) a.) HTML

<!-- ..... -->

- b.) Javascript

// Single line comment or /\* ..... \*/

- c.) php

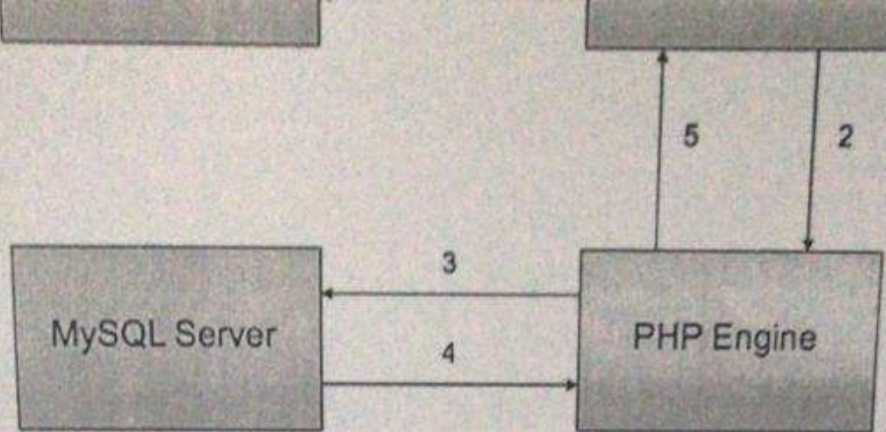
// Single line comment

- 3.) <script language = "javascript" type = "text / javascript" >  
Var person = prompt ( "Please enter your name" );  
</script >

4.)

4.)





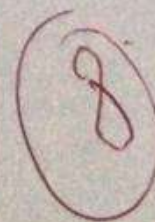
- A user's web browser issues an HTTP request for a particular web page. For example, using an HTML form, she might have requested a search for all books at MikkeliOnlineProfessionalBooks.com written by Leila Karjalainen. The search results page is called results.php.
  - The web server receives the request for results.php, retrieves the file, and passes it to the PHP engine for processing.
  - The PHP engine begins parsing the script. Inside the script is a command to connect to the database and execute a query (perform the search for books). PHP opens a connection to the MySQL server and sends on the appropriate query.
  - The MySQL server receives the database query, processes it, and sends the resulting list of books - back to the PHP engine.
  - The PHP engine finishes running the script, which usually involves formatting the query results nicely in HTML. It then returns the resulting HTML to the web server.
  - The PHP engine finishes running the script, which usually involves formatting the query results nicely in HTML. It then returns the resulting HTML to the web server.
- 9) Write a PHP page to create the following page. And display the values in the same page.

Name

Sex ☒ Male ☐ Female

Address

Age



1>

y>



```

</body>

<form action = "WebExam.php" method = "POST">

<table>

<tr>
<td>Name</td> <td><input type="text" name="Name"></td>
</tr>
<tr>
<td>Sex</td> <td><input type="radio" name="Gender" value="Male" >Male<input
type="radio" name="Gender" value="Female">Female</td>
</tr>
<tr>
<td>Address</td> <td><input type="text" name="Address"></td>
</tr>
<tr>
<td>Age</td> <td><input type="text" name="Age"></td>
</tr>
<tr>
<td><input type="Submit" value="OK"> </td> <td><input type="Submit"
value="Reset"> </td>
</tr>
</table>

</form>

</html>

<?php
//Form validation
if(isset($_POST['Name'])&&isset($_POST['Address'])&&isset($_POST['Age'])&&isset($_POST['Gender']))
{
    $name = $_POST['Name'];
    $address = $_POST['Address'];
    $age = $_POST['Age'];
    $gender = $_POST['Gender'];

    echo $name ;
    echo "<br>";
    echo $address ;
    echo "<br>";
    echo $age ;
}

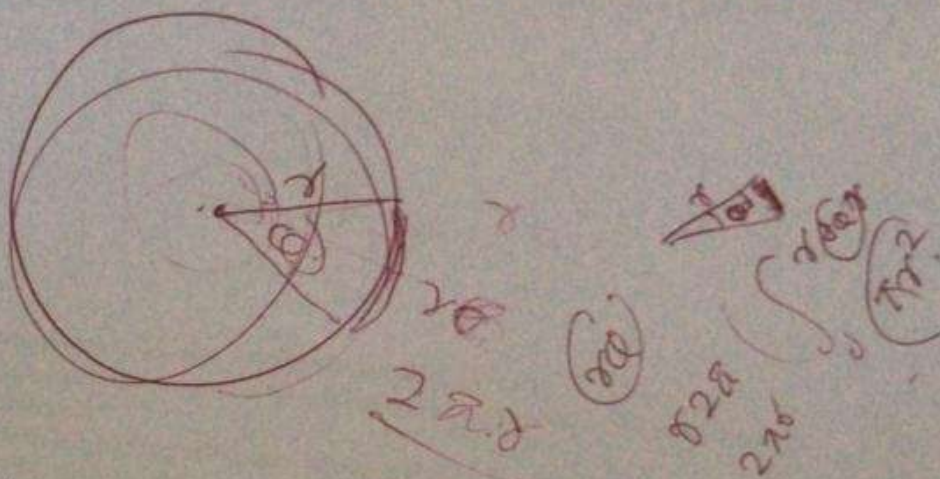
```

8, ~~43~~ 43

SE missing  
papers



```
echo "<br>";  
echo $gender;  
}  
  
?>
```



| Item No | Description | Price  |
|---------|-------------|--------|
| D100    | Flour       | 120.00 |

```
INSERT INTO Items('itemno','description','price') VALUES ('D100','Flour',120);
```

```
$query = INSERT INTO Items(`itemno`,`description`,`price`) VALUES
00,'Flour',120);
```

7 of 12

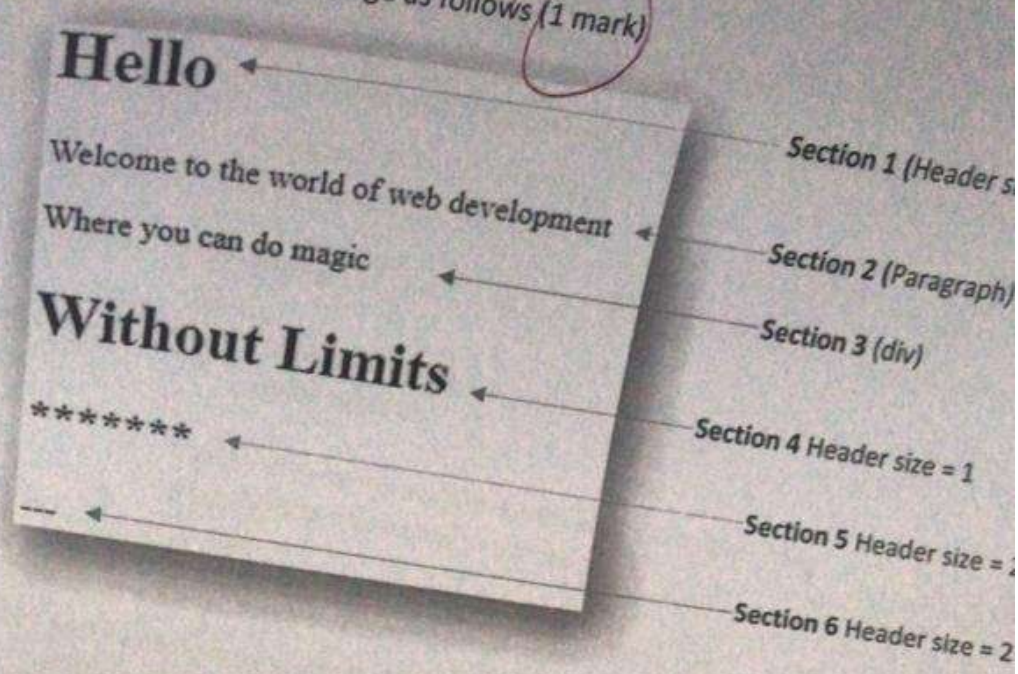


### Question 3

1. What is the main role of CSS in Web Design (2 mark)  
CSS describes the style of an html document. (How HTML elements should be displayed)
2. Briefly explain the difference between Classes and IDs used in CSS. (2 marks)  
In CSS, **Classes** allows to define styles for groups of elements while **IDs** define styles for specific elements.
3. What is CSS box model? Define the use of its main elements (Margin, Border, Padding, Content) (5 marks)
  - CSS box model is essentially a box that wraps around every HTML element. It consists of: margins, borders, padding, and the actual content.
    - **Margin:** the top most layer, the overall structure is shown
    - **Border:** the padding and content option with a border around it is shown. Background color affects the border.
    - **Padding:** Space is shown. Background color affects the border.
    - **Content:** Actual content is shown.



Write a simple HTML web page as follows (1 mark)



```
<html>
  <head>
    <title>hello</title>
  </head>
  <body>
    <h1 id="welcome">Hello</h1>
    <p>Welcome to the world of web development</p>
    <div>Where you can do magic</div>
    <h1>Without Limits</h1>
    <h2>*****</h2>
    <h3>----</h3>
  </body>
</html>
```

- a. Write an external css file called style.css (4 marks)
- Change the color of **section 2** to red.
  - Change the color of **section 1** to red and align the text to center using id selector.
- Add an id to section 1 on html code,
- ```
<h1 id="welcome" class = "title">Hello</h1>
```

```
On Style.css,
#welcome {
  color : red;
}
```



- iii. Change the color of **Section 5** and **Section 6** to green and align the text to center.  
Add section 5 and 6 to the same class,

```
<h2 class="title">*****</h2>
<h3 class="title">----</h3>
```

On style.css,

```
.title{
    text-align: center;
    color : green;
}
```

- iv. Change the color of **section 3** and **section 4** to blue using group selectors to minimize the code.

```
h1, div {
    color : blue;
}
```

- b. Set the background color to "linen" for the page, using an internal style sheet. (1 mark)

```
<style>
body {
    background-color: linen;
}
</style>
```

- c. Set the background color to "yellow" for the page, using an inline style. Assuming all the above code is available what is the background color of the page now? (3 marks)

```
<body style="background-color : yellow">
background color of the page now IS "YELLOW"
```

- d. Use the CSS Box model to complete below tasks, (2 marks)

- Set the width of **section 3** to 200px.
- Set the padding of the **section 3** to "25px".
- Set the border of the **section 3** to "25px solid black"
- Set the margin of the **section 3** to "25px".

```
div {
    width: 200px;
    padding: 25px;
    border: 25px solid black;
    margin: 25px;
}
```



4. Write a small JavaScript program to take three inputs (num1, num2, num3) (10 marks)
- Add num1 and num2
  - Multiply the answer of above by num3
  - Use an alert box to display whether the final answer is an odd number or an even number.

```
<html>
<head>
<title>JavaScript</title>
</head>
<body>
<script>

var num1, num2, num3;
num1 = window.prompt("Input the First number", "0");
num2 = window.prompt("Input the Second number", "0");
num3 = window.prompt("Input the Third number", "1");

ans = ((parseInt(num1, 10) + parseInt(num2, 10)) * parseInt(num3,
10));
if(ans%2==1){
    window.alert("The answer is a an odd number")
}
else{
    window.alert("The Answer is an even number");
}

</script>

</body>
</html>
```

\*\*\* End of paper\*\*\*



#### Question 4

1. "Java Script is not a case sensitive language" is this statement true or false? Explain your answer (3 marks).

JavaScript is a case-sensitive language. This means that language keywords, variables, function names, and any other identifiers must always be typed with a consistent capitalization of letters. The while keyword, for example, must be typed "while", not "While" or "WHILE".

2. What is Document Object Model (DOM) in JavaScript? (3 marks)

The Document Object Model (DOM) is the model that describes how all elements in an HTML page, like input fields, images, paragraphs etc., are related to each other.

By calling the element by its proper DOM name, we can access and modify the element.

3. What is the output of below code? Explain your answer. (4 marks)

```
<script>
  console.log(0.1 + 0.1);
  console.log(0.1 + 0.1 == 0.01);
</script>
```

0.2

false

First console log output is an arithmetic operation. So, it will return the summation of  $0.1 + 0.1$

Second console log output will check whether one side is equal to the other. So, it will return a Boolean value.