1 # A1

We want to arrange five DIVs so that DIV4 is placed above DIV1. What CSS property will we use to control the order of the stack?

Select one alternative:

- x-index
- d-index
- s-index
- z-index

Maximum marks: 3

2 # A2

We want to wrap a text block around an image, which CSS property will we use ?

Select one alternative:

- align
- push
- wrap
- float

Maximum marks: 3

3 **A3**

What should be the table width, so that the width of a table adapts to the current width of the browser window?

Select one alternative:

- full screen
- 100%
- 640 pixels
- 1024 px

Maximum marks: 3

4 **A4**

Which attribute can be added to many HTML / XHTML elements to identify them as members of a particular group ?

Select one alternative:

- span
- class
- div
- ID

Maximum marks: 3

5 A5

HTML web pages can be read and rendered by _____.
Select one alternative:

- Server
- Web Browser
- Interpreter
- Compiler

Maximum marks: 3

6 A6

How are quotes defined in HTML?
Select one alternative:

-
- none of the above
-
-

Maximum marks: 3

7 **A7**

Which of the following methods can be used to display data in some form using JavaScript?
Select one alternative:

- all of the above
- console.log()
- alert()
- document.write()

Maximum marks: 3

8 **A8**

What is the output of the following code snippet?

```
<script type="text/javascript">
a = 5 + "9";
document.write(a);
</script>
```

Select one alternative:

- 59
- Runtime error
- 14
- Compilation error

Maximum marks: 3

9 **A9**

Match each of the TCP/IP layers with the correct functions

Please match the values:

	Application layer	Transport layer	Network layer	Physical layer
Put the message on the wire	○	○	○	○
Responsible for complete end to end delivery	○	○	○	○
Responsible for routing messages	○	○	○	○
Gives applications the ability to access the services of the other layers	○	○	○	○

Maximum marks: 6

10 **B1**

What is the difference between GET and POST methods used in forms?

Fill in your answer here

Format

Σ

Words: 0

Maximum marks: 4

11 **B2**

Explain the difference between “display:block” and “visibility:hidden”.

Fill in your answer here

Format

Σ

Words: 0

Maximum marks: 4

12 **B3**

If the following webpage is loaded, what will be the result?

```
<html>

   <body>

      <script type = ‘text/javascript‘>


         const arrayOfOddNumbers = [1, 3, 5];
         document.write(arrayOfOddNumbers.length);
         arrayOfOddNumbers[100] = 199;
         document.write(arrayOfOddNumbers.length);


      </script>
   </body>
</html>
```

Fill in your answer here

Format

Σ

Words: 0

Maximum marks: 4

13 **B4**

Forklar forskjellen mellom følgjande, med døme,
getElementbyId
getElementsbyName
getElementsbyClassName
getElementsbyTagName

Fill in your answer here

Format

Words: 0

Maximum marks: 8

14 **B5**

Explain event propagation and event bubbling using examples.

Fill in your answer here

Format

Σ

Words: 0

Maximum marks: 10

15 **C1**

Write a javascript function to determine whether a given number is an Armstrong number or not. A positive integer is called an Armstrong number (of order n) if

$abcd... = a^n + b^n + c^n + d^n + ...$

In the case of a 3-digit Armstrong number, the sum of cubes of each digit is equal to the number itself. For example, **153** is an Armstrong number because **153 = 1*1*1 + 5*5*5 + 3*3*3**
Similarly, **1634** is an Armstrong number because: **1634 = 1*1*1*1 + 6*6*6*6 + 3*3*3*3 + 4*4*4*4**

Fill in your answer here

```
1
```

Maximum marks: 5

16 **C2**

Consider the following webpage

```
<h1>Welcome to My Homepage</h1>
<div class="intro">
  <p>My name is Donald <span id="Lastname">Duck.</span></p>
  <p id="my-Address">I live in Duckburg</p>
  <p>I have many friends:</p>
</div>

<ul id="Listfriends>
  <li>Goofy</li>
  <li>Mickey</li>
  <li>Daisy</li>
  <li>Pluto</li>
</ul>

<p class=“my quote">All my friends are great!<br>
But my best friend is Pluto!!</p>

<p lang="it">Ciao bella</p>

<h3>We are all animals!</h3>
<p><b>My latest discoveries have led me to believe that we are all animals:</b></p>
```

Change the text color of all <p> elements inside the element.

Fill in your answer here

Change the background color of all <p> elements that are siblings of <ul> element.

Fill in your answer here

Make the first letter size 20 for all the <p> elements.

Fill in your answer here

Fill in your answer here

Maximum marks: 8

17 **C3**

Write a JavaScript function that calculates the number of days left till the next year’s Christmas (not this year), checks if the number of days is prime or not, and displays an alert box to show the result (e.g., "4 days left, 4 is not prime“; “11 days left, 11 is prime“;)

Fill in your answer here

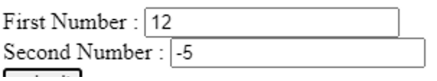
```
1
```

Maximum marks: 8

18 **C4**

Write an HTML form and a JavaScript program that calculates the following mathematical functions using two numbers (user input) when the user clicks the submit button. Also validate the form to use only positive numbers as input.

The results will look like this



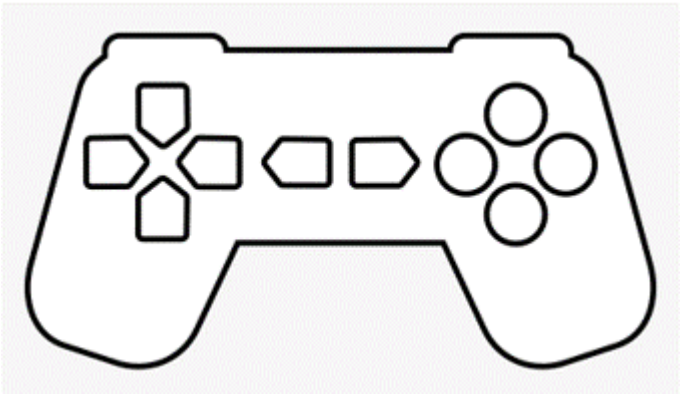
Fill in your answer here

```
1
```

Maximum marks: 9

19 **C5**

Write JavaScript code to draw the following figure inside a <canvas> element. Do not forget to access the canvas element from your script and use the 2D drawing API. We expect you to approximately draw the following figure, eg. line width, not completely centered to the canvas, color of the lines etc. are not problems.



<!DOCTYPE html>

<html>

<body>

<canvas id="myCanvas" width="400" height="120" style="border:1px solid #d3d3d3;">

Your browser does not support the HTML5 canvas tag.</canvas>

<script>

…

</script>

</body>

</html>

Fill in your answer here

```
1
```

Maximum marks: 10