Answers Type : Equal

Text Areas : PlainText

Possible Answers :

50

AppDev1

Section Id :	64065339072
Section Number :	7
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	16
Number of Questions to be attempted :	16
Section Marks :	50
Display Number Panel :	Yes
Group All Questions :	No
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	64065382589
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 102 Question Id : 640653577853 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 0

Question Label : Multiple Choice Question

THIS IS QUESTION PAPER FOR THE SUBJECT "DIPLOMA LEVEL : MODERN APPLICATION

DEVELOPMENT I (COMPUTER BASED EXAM)"

ARE YOU SURE YOU HAVE TO WRITE EXAM FOR THIS SUBJECT?

CROSS CHECK YOUR HALL TICKET TO CONFIRM THE SUBJECTS TO BE WRITTEN.

(IF IT IS NOT THE CORRECT SUBJECT, PLS CHECK THE SECTION AT THE TOP FOR THE SUBJECTS REGISTERED BY YOU)

Options :

6406531929653. ✔ YES

6406531929654. ✖ NO

Sub-Section Number :	2
Sub-Section Id :	64065382590
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 103 Question Id : 640653577854 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2

Question Label : Multiple Choice Question

Which of the following statements is/are true?

Options :

6406531929655. ✖ HTTP headers (for example “Content-Type”) are case-sensitive

6406531929656. ✖ The body/payload in an HTTP request is mandatory

6406531929657. ✔ The “Content-Length” header indicates the size of the request body in bytes

6406531929658. ✖ All of these

Question Number : 104 Question Id : 640653577862 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time : 0

Correct Marks : 2

Question Label : Multiple Choice Question

Consider a square matrix A given below.

$$A = \begin{bmatrix} 12 & 21 & 25 \\ 11 & 8 & 30 \\ 9 & 19 & 17 \end{bmatrix}$$

Matrix B is another matrix whose elements represent the LSBs of binary equivalent of corresponding elements of matrix A. The determinant of matrix B would be _____.

Options :

6406531929683. ✔ 0

6406531929684. ✖ 1

6406531929685. ✖ 2

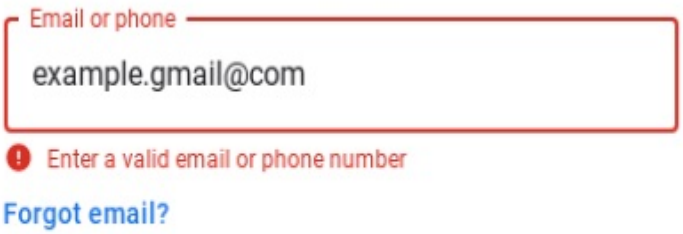
6406531929686. ✖ 3

Question Number : 105 Question Id : 640653577864 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2

Question Label : Multiple Choice Question

Consider the image given below.



When a user enters an invalid email or phone number, an error message is displayed which clearly tells him/her about what went wrong. Which usability heuristic principle best describes the above behavior?

Options :

6406531929691. ✖ Aesthetic and minimalist design

6406531929692. ✖ User control and freedom

6406531929693. ✔ User diagnosis and recovery from errors

6406531929694. ✖ Flexibility and ease of use

Question Number : 106 Question Id : 640653577865 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2

Question Label : Multiple Choice Question

Consider the given URL below.

```
https://www.host.com/tutorials/what-is-a-domain-name
```

Select the appropriate option that correctly identifies different components of a given URL.

Options :

6406531929695. ✖

```
Protocol: https
Domain: www
Sub-Domain: host.com
Path: /tutorials/what-is-a-domain-name
```

6406531929696. ✖

```
Protocol:  https
Domain:  www
Sub-Domain:  host.com/tutorials
Path:  /what-is-a-domain-name
```

6406531929697. ✔

```
Protocol:  https
Domain:  host.com
Sub-Domain:  www
Path:  /tutorials/what-is-a-domain-name
```

6406531929698. ✖

```
Protocol:  https
Domain:  host.com /tutorials
Sub-Domain:  www
Path: /what-is-a-domain-name
```

Sub-Section Number : 3

Sub-Section Id : 64065382591

Question Shuffling Allowed : Yes

Is Section Default? : null

Question Number : 107 Question Id : 640653577855 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3

Question Label : Multiple Choice Question

Let L = {'a', 'b', 'c', 'd', 'A', 'B', 'C', 'D', '0', '1', ' '} be a complete character set (i.e., only these characters can be used to represent text in the document). If a document that uses fixed encoding for all characters is created using the character set L and has a disk size of 2 Kilobytes, the number of characters in the documents would be_____. [Take 1 Byte = 8 bits, 1 KB = 1000 Bytes, 1 MB = 1000 Kilobytes and so on.]

Options :

6406531929659. ✖ 2000

6406531929660. ✔ 4000

6406531929661. ✖ 8000

6406531929662. ✖ 16000

Question Number : 108 Question Id : 640653577857 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3

Question Label : Multiple Choice Question

A mobile client starts from and is cruising away continuously at 60 kmph from the network tower whose network range is 40 km and bandwidth is 120 Mbps. How much data (in Gigabytes) will be consumed by the client who is continuously using the entire bandwidth before completely moving out of the network?

[Take 1 Byte = 8 bits, 1 KB = 1000 Bytes, 1 MB = 1000 Kilobytes and so on.]

[Consider the speed of light in air to be 3 x 10^8 m/sec.]

Options :

6406531929667. ✖ 24

6406531929668. ✖ 28.8

6406531929669. ✔ 36

6406531929670. ✖ 288

Question Number : 109 Question Id : 640653577858 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3

Question Label : Multiple Choice Question

What will be the output of the following Python code snippet on the terminal.

```
from string import Template

temp = "A student needs to complete $c1 level to get to the {{c2}}
level."

temp = Template(temp)
out = temp.substitute({'c1':'foundation', 'c2':'diploma'})
print(out)
```

Options :

6406531929671. ✖

```
A student needs to complete $c1 level to get to the diploma
level.
```

6406531929672. ✔

```
A student needs to complete foundation level to get to the
{{c2}} level.
```

6406531929673. ✖

```
A student needs to complete foundation level to get to the
diploma level.
```

6406531929674. ✖

```
KeyError: 'c2'
```

Question Number : 110 Question Id : 640653577863 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3

Question Label : Multiple Choice Question

Consider a `<span>` element and the styling given to it in `<style>` tag using element selector in the HTML file below.

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Span</title>
    <style>
        span{
            color: blue;
            Background-color: lime;
        }
    </style>
</head>
<body>
    <span id="my_span">MAD-I is a Diploma level course.
    </span>
</body>
</html>
```

What will be the final style applied to `<span>` tag if an additional style is added via the ID selector given below?

```
#my_span{
         width: 1200px;
         Background-color: lightpink;
        }
```

Options :

6406531929687. ✔

```
color: blue;
Background-color: lightpink;
```

6406531929688. ✖

```
color: blue;
width: 1200px;
Background-color: lime;
```

6406531929689. ✖

```
color: blue;
width: 1200px;
Background-color: lightpink;
```

6406531929690. ✖

```
width: 1200px;
Background-color: lightpink;
```

Question Number : 111 Question Id : 640653577867 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3

Question Label : Multiple Choice Question

What is the correct sequence of working of Client-Server Architecture.

a. The client asks for the IP address for the particular server from the Domain Name system.
b. To that IP address, the client sends the request to the particular server with that port number that is specified to the particular application and then server responds
c. The DNS server responds with the IP address.
d. The response message is received by the client and based on that port number, the response packet is consumed by the application to which it belongs.

Options :

6406531929703. ✖ c → a → b → d

6406531929704. ✖ a → b → c → d

6406531929705. ✔ a → c → b → d

6406531929706. ✖ None

Question Number : 112 Question Id : 640653577868 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3

Question Label : Multiple Choice Question

Consider the following HTML document.

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <title>Document</title>
    <style>
        p {
            background-color: yellow;
            color: red;
            display: inline-block;
        }
        #id {
            border: 2px solid purple;
            color:blue ;
        }
        .class {
            background-color: aqua;
            color: red;
        }
    </style>
</head>
<body>
    <p class="class" id="id">HTML</p>
    <p class="class" >HTML</p>
    <p>HTML</p>
</body>
</html>
```

How will the browser render above HTML file?

Options :

6406531929707. ✖ 

6406531929708. ✖ 

6406531929709. ✔ 

6406531929710. ✖ 

Question Number : 113 Question Id : 640653577869 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3

Question Label : Multiple Choice Question

Consider the following Python code snippet.

app.py

```
from jinja2 import Template
import sys
input_list = sys.argv
Name, profession = input_list[1], input_list[2]

if input_list[1]=="Meera":
    profession="Data Analyst"
else:
    pass
template = """
           <!DOCTYPE html>
           <html>
             <div>
                {{Name}}
                {{Profession}}
             </div>
           </html>
           """
t = Template(template)
print(t.render(Name = name, Profession = profession))
```

Map the commands in column A with the correct rendered output in the browser in column B.

Column A	Column B
a) python app.py Kartik Doctor	1) Meera Data Analyst
b) python app.py Meera Scientist	2) Ajay Singer
c) python app.py Ajay Singer	3) Kartik Web
d) python app.py Kartik Web Developer	4) Kartik Doctor
	5) Kartik Web Developer

Options :

6406531929711. ✖ a - 4, b - 1, c - 2, d - 5

6406531929712. ✖ a - 3, b - 2, c - 1, d - 4

6406531929713. ✔ a - 4, b - 1, c - 2, d - 3

6406531929714. ✖ a - 5, b - 1, c - 3, d - 2

Sub-Section Number :	4
Sub-Section Id :	64065382592
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 114 Question Id : 640653577856 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4.5

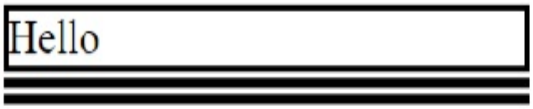
Question Label : Multiple Choice Question

Consider the following Python code snippet:

```
from pyhtml import *

code = html(
            head(style('div{border:2px solid black;margin: 2px;
width: 200px;}')),
            body(==== BODY CONTENT ====)
           )
print(code.render())
```

If the text "==== BODY CONTENT====" is replaced by each option in column A and rendered, which of the following mapping between column A and Column B is correct?

Column A	Column B
a) div('Hello'),div(),div()	1) 
b) div(),div(div('Hello'))	2) 
c) div(div(div('Hello')))	3) 
d) div(div('Hello'),div())	4) 

Options :

6406531929663. ✖ a - 1, b - 3, c - 4, d - 2

6406531929664. ✔ a - 2, b - 3, c - 1, d - 4

6406531929665. ✖ a - 3, b - 1, c - 2, d - 4

6406531929666. ✖ a - 4, b - 2, c - 1, d - 3

Question Number : 115 Question Id : 640653577866 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

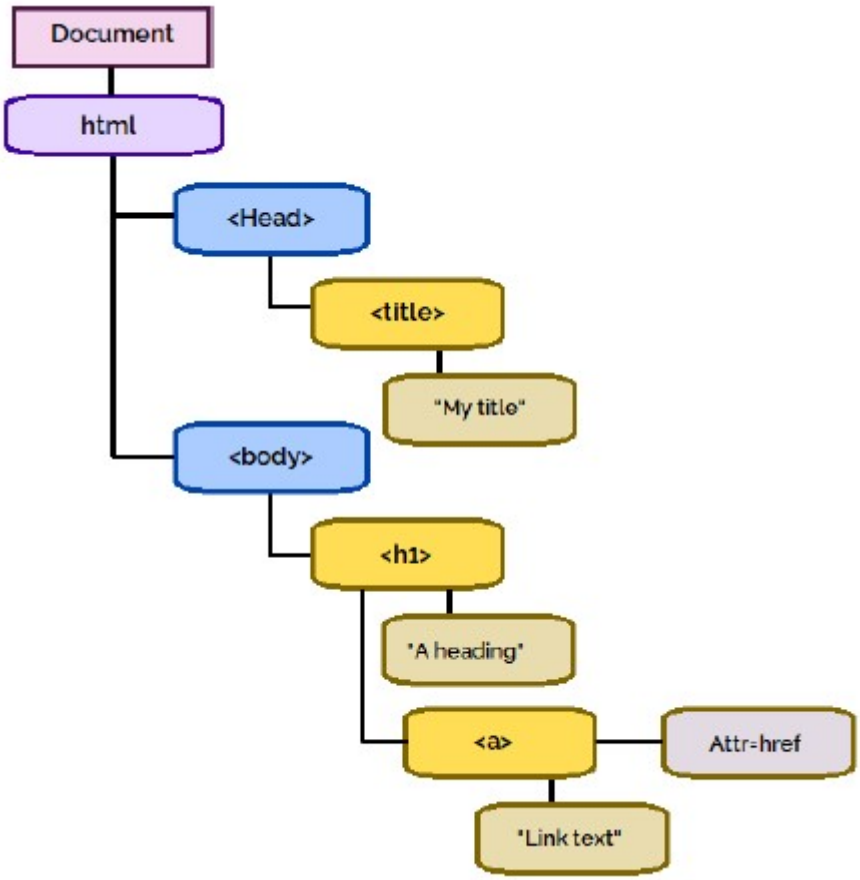
Correct Marks : 4.5

Question Label : Multiple Choice Question

Consider the following HTML document and select the DOM structure that correctly represents the HTML document.

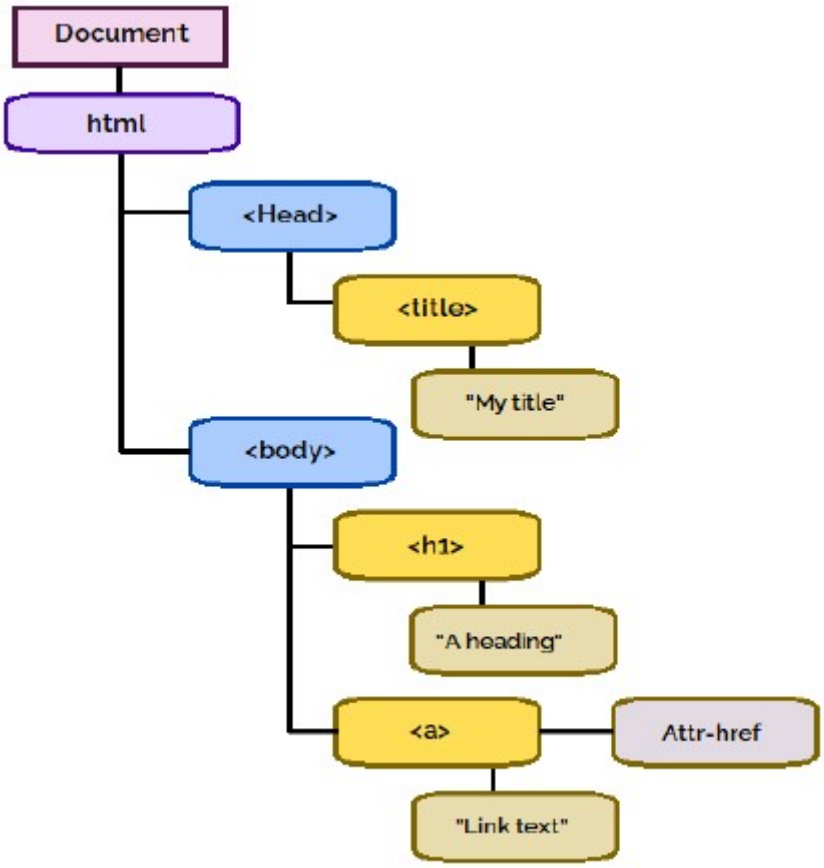
```
<!DOCTYPE html>
<head>
    <title>My title</title>
</head>
<body>
    <h1>A heading</h1>
    <a href="link">Link text</a>
</body>
</html>
```

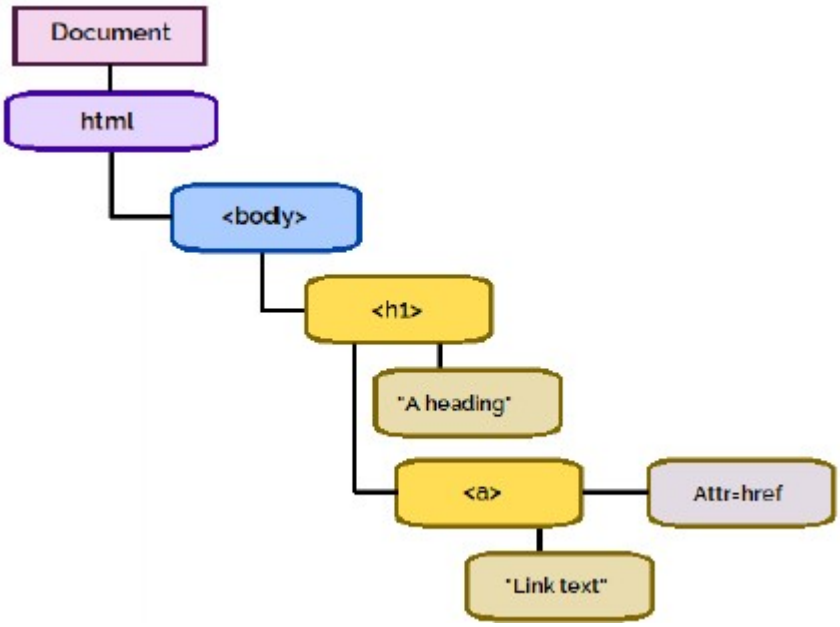
Options :



6406531929699. ✖

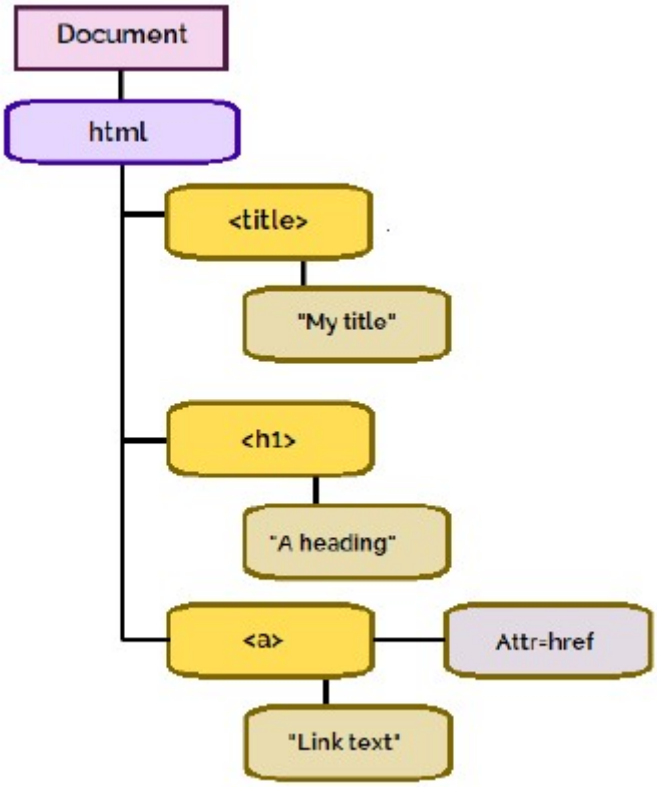
6406531929700. ✔





6406531929701. ✖

6406531929702. ✖



Question Number : 116 Question Id : 640653577870 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4.5

Question Label : Multiple Choice Question

Consider the following Python code snippet.

```
from jinja2 import Template

temp =  """
     {% for vid, members in  interfaces|groupby(attribute='lan') %}
        Interfaces in lan {{ vid }}: {{ members|map(attribute='name')
| join(', ') }}
      {% endfor %}
        """
interfaces = [
                {"name":"Ethernet1","lan":50},
                {"name":"Ethernet2","lan":40},
                {"name":"Ethernet3","lan":50},
                {"name":"Ethernet4","lan":60}
             ]
output = Template(temp)
print(output.render(interfaces=interfaces))
```

What will be the output of above python code on the terminal.

Options :

6406531929715. ✖

```
Interfaces in lan 50: Ethernet1
Interfaces in lan 40: Ethernet2
Interfaces in lan 50: Ethernet3
Interfaces in lan 60: Ethernet4
```

6406531929716. ✖

```
Interfaces in lan 40: Ethernet1, Ethernet3
Interfaces in lan 50: Ethernet2
Interfaces in lan 60: Ethernet4
```

6406531929717. ✖

```
Interfaces in lan 40: Ethernet2
Interfaces in lan 50: Ethernet1, Ethernet4
Interfaces in lan 60: Ethernet3
```

6406531929718. ✔

```
Interfaces in lan 40: Ethernet2
Interfaces in lan 50: Ethernet1, Ethernet3
Interfaces in lan 60: Ethernet4
```

Sub-Section Number : 5

Sub-Section Id :	64065382593
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Id : 640653577859 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Question Pattern Type : NonMatrix Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Question Numbers : (117 to 118)

Question Label : Comprehension

A Flask application and its absolute path is given below.

```
C:\home\mad_1>
```

app.py

```
from flask import Flask, url_for
import sys

def create_path():
    if len(sys.argv) < 2:
        return '/static'
    else:
        return f'/{sys.argv[1]}'

app = Flask(__name__, static_url_path = create_path())

@app.route('/home')
def display():
    return f"<h3>static url path: {app.static_url_path}</h3>\
             <h3>static folder: {app.static_folder}</h3>"

app.run(debug = True)
```

Based on the above data, answer the given subquestions.

Sub questions

Question Number : 117 Question Id : 640653577860 Question Type : MCQ Is Question

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3

Question Label : Multiple Choice Question

If the application is run locally on http://127.0.0.1:5000 using the command `python app.py`, what will be rendered by the browser for URL http://127.0.0.1:5000/home?

Options :

6406531929675. ✖ **static url path: C:\home\mad_1\static**
static folder: /static

6406531929676. ✔ **static url path: /static**
static folder: C:\home\mad_1\static

6406531929677. ✖ **static url path: /stable**
static folder: C:\home\mad_1\stable

6406531929678. ✖ **static url path: /static**
static folder: C:\home\mad_1\stable

Question Number : 118 Question Id : 640653577861 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4.5

Question Label : Multiple Choice Question

If the application is run locally on http://127.0.0.1:5000 using the command `python app.py stable`, what will be rendered by the browser for URL http://127.0.0.1:5000/home?

Options :

6406531929679. ✖ **static url path: /static**
static folder: C:\home\mad_1\static

6406531929680. ✖ **static url path: /stable**
static folder: C:\home\mad_1\stable

6406531929681. ✖ **static url path: C:\home\mad_1\stable**
static folder: /stable

6406531929682. ✔ **static url path: /stable**
static folder: C:\home\mad_1\static

MLF

Section Id :	64065339073
Section Number :	8
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	15
Number of Questions to be attempted :	15
Section Marks :	50
Display Number Panel :	Yes
Group All Questions :	No