### App dev1

**Section Id:** 64065322448

Section Number: 6

Section type: Online

Mandatory or Optional: Mandatory

Number of Questions: 31

Number of Questions to be attempted: 31

Section Marks: 100

**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:** 64065352575

**Question Shuffling Allowed:** No

Question Number: 194 Question Id: 640653360433 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 1"

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 <u>TOP</u> FOR THE SUBJECTS REGISTERED BY YOU)

### **Options:**

6406531193842. Ves

6406531193843. \* No

Sub-Section Number: 2

**Sub-Section Id:** 64065352576

**Question Shuffling Allowed :** Yes

Question Number: 195 Question Id: 640653360434 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 correctly represents the components of the given URL?

```
https://www.mywebsite.com/home?user=Mad1&key=madcs2003
```

### **Options:**

```
https : Domain name;
www.mywebsite.com : Request parameter;
/home : Directory;
user=Mad1&key=madcs2003 : domain name
```

6406531193844.

```
https : Protocol;
www.mywebsite.com : Directory;
/home : Domain name;
user=Mad1&key=madcs2003 : Request parameters
```

6406531193845. \*\*

```
https : Protocol;
www.mywebsite.com : Domain name;
/home : Directory;
user=Mad1&key=madcs2003 : Request parameters
```

6406531193846.

```
https : IP Address;
www.mywebsite.com : Domain name;
/home : Directory;
user=Mad1&key=madcs2003 : Local Host
```

6406531193847.

Question Number: 196 Question Id: 640653360436 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

app.run(debug = True)

Consider the following flask app and an HTML file in templates folder:

### Template file:

```
<!DOCTYPE html>
<head>
   <style>
       body{width: 200px;
             border: 2px solid black}
       #one{color:red;}
       #two{color:blue;}
   </style>
</head>
<body>
   {% for item in my_list %}
      {% set Length = item|length %}
      {% if Length%2 == 0 %}
           <h3 id = "one">{{ item }}</h3>
      {% else %}
           <h3 id = "two">{{ item }}</h3>
      {% endif %}
   {% endfor %}
</body>
```

If the above flask app is running locally on <a href="http://127.0.0.1:5000/">http://127.0.0.1:5000/</a>, what will be rendered by the browser for the base URL?

### **Options:**

```
Web development
onlinedegree
cs2003
MAD-I
Data_science
```

6406531193853. \*\*



Web development
onlinedegree
cs2003
MAD-I
Data\_science

6406531193854. \*\*

Web development
onlinedegree
cs2003
MAD-I
Data\_science

6406531193855.

Question Number: 197 Question Id: 640653360452 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 flask code given below.

```
Python file: app.py
from flask import Flask, jsonify, request
app = Flask(__name__)
my_shops= [
    'name of the shop' : 'Grocery',
    'items' : [
        {
            'item1' : 'Toothpaste',
            'item2' : 'Snacks',
            'item3' : 'Biscuits',
            'item4' : 'Soaps'
        }
    ]
  }
@app.route('/')
def show_shop():
    return jsonify({"shops" : my_shops})
#==========
     CODE HERE
#==========
if __name__ == '__main__':
    app.run()
```

Which of the following code snippets must be added in the given space of above application, in order to create a new shop in 'my\_shops' list on the server side apart from the existing one?

### **Options:**

6406531193905.

```
@app.route('/myshop', methods=['POST'])

def create_shop():
    new_data = request.get_json()
    new_shop = {
        'New shop' : new_data['name of the shop']
      }
    my_shops.append(new_shop)

return jsonify(new_shop)
```

```
@app.route('/myshop', methods=['POST'])

def create_shop():
    new_data = request.get_json()
    new_shop = {
        'New shop' : new_data['name of the shop']
        }
    return jsonify(new_shop)
```

6406531193908. \* All of these

Question Number: 198 Question Id: 640653360455 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

A table 'person' is created in the database using model class "Person" with fields and their properties given in the table below.

id	firstname	lastname	email	age	occupation
1	Rahul	Mishra	rahul@gmail.com	23	Engineer
2	Ishan	Vadhera	vadhera@gmail.com	35	Lawyer
3	Abhilasha	Verma	vermaa@gmail.com	25	Teacher

Assuming that flask\_sqlachemy is to be used in the 'main.py' file, which of the following statements is/are true?

# **Options:**

```
Both the queries i.e.,
                  Person.query.filter_by(firstname="Ishan").all() and
                  Person.query.filter_by(firstname="Ishan").first() will produce the
6406531193917. * same result.
                   Both the queries i.e.,
                  Person.query.filter_by(id=3).first() and
6406531193918. ✓ Person.query.get(3) will produce the same result.
                   If person1 = Person.query.get(1) then, Both the inputs i.e.,
                  >>>person1
6406531193919. * >>>person1.firstname will produce the same result.
                  Both the queries i.e.,
                  Person.query.filter_by(firstname="Ishan").first(), and
                  Person.query.get(3)
6406531193920. * will produce the same result
```

Question Number: 199 Question Id: 640653360456 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

A flask app and a template files are given below.

Templates file: home.html

```
<!DOCTYPE html>
<html>
<body>
<a href="{{ url_for('HomePage') }}">Go back to home page?</a>
<h2>About page</h2>
{% if condition %}
  <h3> You are landed on about page.</h3>
  {% for user in users %}
  <l
   Username : {{user.user}}, Age : {{user.age}}, Gender :
   {{user.gender}}, Score : {{user.score}}
  {% endfor %}
{% else %}
   <h3> Please Go back.</h3>
{% endif %}
</body>
</html>
```

If the above flask application is running locally on "http://127.0.0.1:5000", which of the following statement is true?

### **Options:**

For URL: "http://127.0.0.1:5000/home/", the rendered output will be "Welcome, folks! This is the Home Page!"

For URL: "http://127.0.0.1:5000/about", the rendered output will be:

Go back to home page?

### About page

### You are landed on about page.

· Username : Shobhit, Age : 23, Gender : Male, Score : 90

Username: Deepak, Age: 17, Gender: Male, Score: 88

Username: Nikita, Age: 20, Gender: Female, Score: 87

For URL: "http://127.0.0.1:5000/about", the rendered output will be:

Go back to home page?

### About page

### You are landed on about page.

· Username : Shobhit

• Age: 23

· Gender : Male

Score: 90

Username : Deepak

Age: 17

· Gender : Male

Score: 88

· Username : Nikita

Age: 20

· Gender : Female

• Score: 87

6406531193923.

6406531193924. \*\*

For URL: "http://127.0.0.1:5000/about", the rendered ouptut will be:

Go back to home page?

### About page

### You are landed on about page.

Username: Shobhit

Age: 23

Gender: Male

Score: 90

Username : Deepak

Age: 17

Gender: Male

Score: 88

Username: Nikita

Age: 20

Gender : Female

Score: 87

Question Number: 200 Question Id: 640653360458 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

An HTML document is given below.

Suppose, if we want to give red color to the text within the heading element having id="id1" and green color to the text within the heading element having class="class1", what will be the correct way to do that?

### **Options:**

By using external CSS as follows:

By using internal CSS as follows:

By using inline CSS as follows:

```
<h1 id="id1" style="color:red;">Welcome to IITM</h1>
<h3 class="class1" style="color:green;">Welcome to the world's first online degree program.</h3>
```

6406531193932. \* All of these

Question Number: 201 Question Id: 640653360463 Question Type: MCQ Is Question

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

Time: 0

**Correct Marks: 2** 

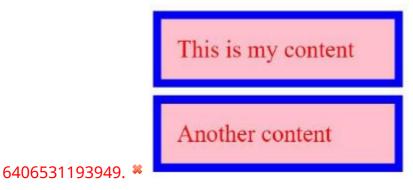
Question Label: Multiple Choice Question

Consider the following HTML document with internal CSS.

```
<!DOCTYPE html>
<html>
 <head>
      <style type="text/css">
           margin: 0px;
           width: 253px;
          }
         div{
              margin: 10px;
              padding: 20px;
              border-style: dotted;
              border-width: 10px;
              font-size: 30px;
              color: blue;
              background-color: pink;
              border-color: red;
            }
       </style>
       <title>End Sem</title>
   </head>
  <body>
      <div>This is my content</div>
      <div>Another content</div>
   </body>
</html>
```

How will the browser render the above HTML document?

### **Options:**



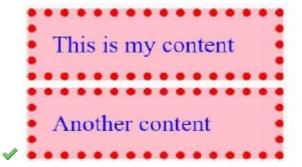
6406531193950. \*\*



This is my content Another content

6406531193951.

6406531193952.



**Sub-Section Number:** 3

**Sub-Section Id:** 64065352577

**Question Shuffling Allowed :** Yes

Question Number: 202 Question Id: 640653360437 Question Type: MSQ Is Question

 ${\bf Mandatory: No\ Calculator: None\ Response\ Time: N.A\ Think\ Time: N.A\ Minimum\ Instruction}$ 

Time: 0

**Correct Marks: 2** 

**Question Label: Multiple Select Question** 

Consider the following table "workers" created in SQLite database corresponding to model class "Workers" using flask\_sqlalchemy.

Id	Name	Designation	Gender	Salary
Filter	Filter	Filter	Filter	Filter
1	Padma Raja	Supervisor	Female	2000
2	Sameer Gandhi	Labour	Male	1200
3	Latika Murthy	Labour	Female	800
4	Nitya Grover	Supervisor	Female	2000
5	Amit Saxena	Supervisor	Male	2000

The correct way to increase the salary of all the female workers by 500 Rupees using the Python console is:

```
Options:
                 >>> workers = Workers.query.filter_by(Designation =
                 'Supervisor').all()
                 >>> for worker in workers:
                         worker.Salary += 500
                 >>> db.session.commit()
6406531193856. **
                 >>> workers = Workers.query.filter by(Gender = 'Female').all()
                 >>> workers.Salary += 500
                 >>> db.session.commit()
6406531193857.
                 >>> workers = Workers.query.filter_by(Gender = 'Female').all()
                 >>> for worker in workers:
                         worker.Salary += 500
6406531193858. ✓ >>> db.session.commit()
                 >>> workers = Workers.query.filter(Workers.Gender.like('F%')).all()
                 >>> for worker in workers:
                         worker.Salary += 500
                 >>> db.session.commit()
6406531193859. V
```

**Sub-Section Id:** 64065352578

Question Shuffling Allowed :

Question Number: 203 Question Id: 640653360435 Question Type: MCQ Is Question

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

Yes

Time: 0

**Correct Marks: 3** 

Question Label: Multiple Choice Question

How will the browser render the output of the following Python code snippet?

```
from jinja2 import Template
styles=[
        '.text{color: purple}\n #heading{color:red}\n #subhead{color:blue}',
       '.text{color: purple}\n #subhead{color:green}\n #main{color:blue}',
        '.text{color: purple}\n #main{color:red}\n #heading{color:blue}'
       1
template = """
             <!DOCTYPE html>
             <style>
                div{border: 2px solid black;
                    width: 300px;
                    background-color: rgb(247, 247, 230)}
                {{styles[0]}}
             </style>
             <body>
               <div>
                 <h2 style="color:brown;" class="text" id="heading">
Programming Degree</h2>
                 <h3 class="text" id="subhead">Modern Application 1</h3>
                 This is a course on Application
Development
               </div>
             </body>
test_render = Template(template)
output = test_render.render(styles = styles)
print(output)
```

**Options:** 

**Programming Degree** 

Modern Application 1

This is a course on Application Development

6406531193848. \*\*

**Programming Degree** 

Modern Application 1

This is a course on Application Development

6406531193849.

**Programming Degree** 

Modern Application 1

This is a course on Application Development

6406531193850.

**Programming Degree** 

Modern Application 1

This is a course on Application Development

6406531193851.

Question Number: 204 Question Id: 640653360441 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 if method test\_request\_context() allows flask app to print statements on the terminal?

```
from flask import Flask, url_for
app = Flask(__name__)
@app.route('/')
def home():
    return 'base url'
@app.route('/subscribe')
def subscribe():
    return 'Please subscribe to this page.'
@app.route('/new_course/<coursename>')
def course(coursename):
    return f'The course {coursename} gives basics of web development.'
with app.test request context():
    print(url_for('home'))
    print(url for('subscribe'))
    print(url_for('subscribe', username = 'user_one'))
    print(url_for('course', coursename = 'MAD_I'))
```

```
Options:
                base url
                Please subscribe to this page
                Please subscribe to this page user one.
                The course MAD I gives basics of web development.
6406531193868. **
                /subscribe
                /subscribe/user_one
6406531193869. * /new_course/MAD_I
                 /subscribe
                 /subscribe?username=user_one
6406531193870. ✓ /new_course/MAD_I
```

```
/
/subscribe
/subscribe?username=user_one
/new_course?coursename=MAD_I
```

Question Number: 205 Question Id: 640653360449 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

An internet connection with certain bandwidth is able to serve 10,000 requests of 150 Kilobytes each. What should be the increase in bandwidth (in Gbps) if this internet connection is to handle 12,500 requests of 180 Kilobytes each? (**Use relations:** 1 Byte = 8 bits, 1 MB = 1000 B, 1 GB = 1000 M and so on)

### **Options:**

6406531193893. **\***6406531193894. **✓**6406531193895. **\*** 0.6 6406531193896. **\***

Question Number: 206 Question Id: 640653360450 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 code snippet given below.

Python file: test\_app.py

```
import pytest
@pytest.fixture
def items():
    return "Books"
@pytest.fixture
def order():
    return "Pens"
@pytest.fixture
def order_items(order, items):
    return [order, items]
@pytest.fixture
def expected_list():
    return ["Books", "Pencils", "Pens"]
def test_1(order_items, expected_list):
    order_items.append("Pencils")
    assert order_items == expected_list
def test_2(order_items):
    order_items.append("Pencils")
    assert order_items == ["Pens", "Books", "Pencils"]
```

Which of the following statement is true about the above code snippet?

### **Options:**

```
6406531193897. ✓ After running pytest, test_1 will fail, whereas test_2 will pass.
6406531193898. ✗ After running pytest, test_2 will fail, whereas test_1 will pass.
6406531193899. ✗ Both the test cases, test_1 and test_2 will pass successfully.
6406531193900. ✗ Both the test cases, test_1 and test_2 will fail.
```

Question Number: 207 Question Id: 640653360453 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 Python code snippet given below.

```
Python file: app.py
from flask import Flask, request
 from flask restful import Api, Resource, regparse
 app = Flask( name )
 api = Api(app)
 class Add(Resource):
    def post(self):
         data_args = reqparse.RequestParser()
         data args.add argument('Name', help='Name is required',
         required =True)
         data_args.add_argument('Age', help='Age is required',
        required =True)
         args = data_args.parse_args()
         return { "Your Name": args['Name'], "Your Age" : args['Age']}
 api.add_resource(Add, '/add')
 if name == ' main ':
     app.run(debug=True)
```

If this flask application is running on http://127.0.0.1:5000, which of the following is the correct output when a POST request is sent to URL "http://127.0.0.1:5000/add"?

### **Options:**

6406531193909. ♣ The server will throw a "405 METHOD NOT ALLOWED" error.

6406531193910. \* The server will throw a "404 NOT FOUND" error.

```
For the request body;

{
         "Name" : "Rahul",
          "Age": 23
     }

The application will return;

{
         "Your Name": "Rahul",
          "Your Age": "23"

6406531193911. 
}
```

Question Number: 208 Question Id: 640653360454 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 Python code given below.

```
import pytest

@pytest.fixture
def first_entry():
    return "Apple"

@pytest.fixture
def order(first_entry):
    return [first_entry]

def test_string(order):
    order.append("Kiwi")
    assert order == ["Banana", "Apple"]

def test_int(order):
    order.append("Banana")
    assert order == ["Banana", "Apple", "Kiwi"]
```

Which of the following statement is true?

### **Options:**

6406531193913. After running pytest, both test cases will pass successfuly.

6406531193914. After running pytest, the first test case will fail, whereas the second test case will pass.

6406531193915. ✓ After running pytest, both test cases will show a failure report.

6406531193916. \* None of these

Question Number: 209 Question Id: 640653360457 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 flask app given below.

```
from flask import Flask, abort
from flask restful import Resource, Api
app = Flask( name )
api = Api(app)
item_list=[{"item1": "Cloths"},
          {"item2" : "Shoes"},
           {"item3" : "Sunglasses"}]
class ItemList(Resource):
    def get(self, item_no, item_name):
      this_item = {'item'+item_no : item_name}
      if this item in item list:
        return item list, 200
      else:
        abort('400')
    def post(self, item_no, item_name):
      my_item = {'item'+item_no : item_name}
      item list.append(my item)
      return my item, 201
api.add_resource(ItemList, '/items/<item_no>/<item_name>')
app.run(debug=True)
```

If the above flask application is running locally on "http://127.0.0.1:5000", what will be the output of a GET request sent to the URL: 'http://127.0.0.1:5000/items/4/watch' just after a POST request that is sent on the same URL?

### **Options:**

Question Number : 210 Question Id : 640653360462 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 flask application.

Template File - index.html

```
{% macro display(list) %}
    {% for item in list %}
        {{ item }}
    {% endfor %}

{% endmacro %}

<html>
        <body>
        {{ display(list) }}

        </body>
        </html>
```

suppose the application is running locally on the 'http://127.0.0.1:5000', then what will be rendered by the browser?

### **Options:**

6406531193945. \* Cake

**Apple** 

**Ice Cream** 

6406531193946. \* Cake

**Apple** 

Ice Cream
DarkChocolate
Donut
Grape
6406531193947. ✔ DarkChocolate
Donut
Grape
6406531193948. <b>*</b> Ice Cream
DarkChocolate
Donut
Grape
Question Number : 211 Question Id : 640653360465 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 snippets.

```
File 1: main.py
import sys
from new import fun
a = sys.argv[1]
b = sys.argv[2]
c = sys.argv[3]
result = fun(a, b, c)
print(result + " is greater")

File 2: new.py
def fun(num1,num2,num3):
   if (num1 > num2) and (num1 > return num1
```

```
File 2: new.py

def fun(num1,num2,num3):
    if (num1 > num2) and (num1 > num3):
        return num1
    elif (num2 > num1) and (num2 > num3):
        return num2
    else:
        return num3

suppose the main.py file is executed in the terminal. What will be the output?

python main.py
python main.py 8 10 5
```

### **Options:**

6406531193957. \* IndexError: list index out of range

NameError: name 'fun' is not defined

6406531193958. **3** is greater

NameError: name 'fun' is not defined

6406531193959. ✓ IndexError: list index out of range

10 is greater

6406531193960. NameError: name 'fun' is not defined

8 is greater

Question Number: 212 Question Id: 640653360467 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 server that has an Intel i5 processor, 64 GB RAM, 1 TB Hard disk with 3 Gbps network connection. If a client accesses a web page, it requires 1.5 MB. Calculate the maximum number of

such requests per second the server can handle. (**Use relations:** 1 Byte = 8 bits, 1 MB = 1000 B, 1 GB = 1000 M and so on).

### **Options:**

6406531193965. \* 25

6406531193966. \* 32

6406531193967. **✓** 250

6406531193968. \* 200

**Sub-Section Number:** 5

**Sub-Section Id:** 64065352579

**Question Shuffling Allowed :** Yes

Question Number: 213 Question Id: 640653360442 Question Type: MSQ Is Question

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

Time: 0

**Correct Marks: 3** 

Question Label: Multiple Select Question

Consider the following Python code snippet.

```
from flask import Flask, abort, redirect, url for, render template
app = Flask( name )
weekday_users = ['user_1', 'user_3', 'user_4', 'user_6', 'user_7']
weekend_users = ['user_2', 'user_5']
@app.route('/weekday/<username>')
def user_weekday(username):
    if username in weekday users:
        return redirect(url for('login', username = username))
    else:
        abort(401)
@app.route('/weekend/<username>')
def user_weekend(username):
    if username in weekend users:
        return redirect(url_for('login', username = username))
    else:
        abort(401)
@app.route('/login/<username>')
def login(username):
    return f"<h2>Correct User Found! {username}</h2>"
@app.errorhandler(401)
def page_not_found(error):
    return "<h2>You are not authorized for this day.</h2>", 401
app.run()
```

If the above flask app is running locally on "<a href="http://127.0.0.1:5000">http://127.0.0.1:5000</a>", Which of the following statements is/are correct?

### **Options:**

```
For the URL, "http://localhost:5000/weekday/user_4", the browser will render:
```

6406531193872. Correct User Found! user\_4

```
For the URL, "http://localhost:5000/weekend/user_3", the browser will render:
```

6406531193873. \* Correct User Found! user\_3

For the URL, "http://localhost:5000/weekday/user\_5", the browser will render:

6406531193874. You are not authorized for this day.

For the URL, "http://localhost:5000/weekend/user\_2", the browser will render:

## 6406531193875. \* You are not authorized for this day.

Question Number: 214 Question Id: 640653360459 Question Type: MSQ Is Question

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

Time: 0

**Correct Marks: 3** 

Question Label: Multiple Select Question

Consider the code given below.

```
from flask import Flask, request
from flask restful import Api, Resource, reqparse
app = Flask( name )
api = Api(app)
Mytasks = {
    1: {"mytask": "Studying"},
    2: {"mytask": "Exercise"},
    3: {"mytask": "Eating"},
    4: {"mytask": "Sleeping"}
}
class Display(Resource):
    def get(self):
        return Mytasks
class DisplayAll(Resource):
    def get(self, MytaskList_id):
        return Mytasks[MytaskList id]
    def post(self, MytaskList_id):
        data args = reqparse.RequestParser()
        data_args.add_argument("mytask",help='This is required
field', required =True)
        args = data_args.parse_args()
        Mytasks[MytaskList_id] = {"mytask" : args["mytask"]}
        return Mytasks[MytaskList_id]
api.add resource(Display, '/mytask')
api.add_resource(DisplayAll, '/task/<int:MytaskList_id>')
if __name__ == '__main__':
    app.run(debug=True)
```

If the above flask application is running locally on "<a href="http://127.0.0.1:5000">http://127.0.0.1:5000</a>", which of the following statements is/are true?

### **Options:**

The status code that we get after sending a POST request to the URL:

6406531193933

'http://127.0.0.1:5000/mytask/4' will be "404 NOT FOUND".

6406531193934.

The response that we get after sending a GET request to the URL: <a href="http://127.0.0.1:5000/mytask">http://127.0.0.1:5000/mytask</a> will be:

```
"1": {
    "mytask": "Studying"
},
    "2": {
        "mytask": "Exercise"
},
    "3": {
        "mytask": "Eating"
},
    "4": {
        "mytask": "Sleeping"
}
```

The response that we get after sending POST request to the URL:"http://127.0.0.1:5000/task/4" with a sending a request body as,

6406531193936. \*\*

The response that we get after sending a GET request to the URL:"http://127.0.0.1:5000/mytask" will be:

```
{
    "1": {
        "mytask": "Studying"
    },
    "2": {
        "mytask": "Exercise"
    },
    "3": {
       "mytask": "Eating"
    },
    "4": {
       "mytask": "Sleeping"
    },
    "4": {
        "mytask": "Swimming"
}
```

**Sub-Section Number:** 6

**Sub-Section Id:** 64065352580

**Question Shuffling Allowed :** Yes

Question Number: 215 Question Id: 640653360446 Question Type: SA Calculator: None

Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

Correct Marks: 4.5

Question Label: Short Answer Question

What will be the decimal representation of binary number 010101100000011<sub>2</sub>?

**Response Type:** Numeric

**Evaluation Required For SA:** Yes

**Show Word Count:** Yes

**Answers Type:** Equal

**Text Areas:** PlainText

**Possible Answers:** 

11011

Sub-Section Number: 7

**Sub-Section Id**: 64065352581

**Question Shuffling Allowed:** Yes

Question Number: 216 Question Id: 640653360447 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

A machine takes a minimum of 100 seconds to sort 500 entries in a database. What will be the approximate minimum time taken by the machine to sort 1200 entries if the sorting method employs an algorithm with time complexity of O(nlog(n)). Where "n" is the number of entries?

### **Options:**

6406531193885. \* 173 seconds

6406531193886. **273** seconds

6406531193887. **373** seconds

6406531193888. **473** seconds

Question Number: 217 Question Id: 640653360448 Question Type: MCQ Is Question

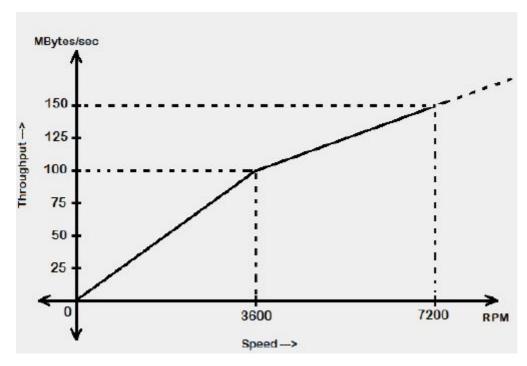
Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

**Correct Marks: 4.5** 

Question Label: Multiple Choice Question

The speed vs. throughput characteristics of a typical HDD is shown in the figure below. If this HDD is to be used as a replacement of an SSD whose read/write speed is 450 MB/s. At what speed (in RPM) should the disk of HDD rotate with to deliver the same performance as that of the SSD?



### **Options:**

6406531193889. \* 3600 RPM

6406531193890. \* 7200 RPM

6406531193891. \* 16,200 RPM

6406531193892. **2**8,800 RPM

Question Number : 218 Question Id : 640653360460 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 Flask app and an HTML file.

```
from flask import Flask, render template, request
app = Flask(__name__)
users = {
          '3':{'name': 'Ram', 'Designation': 'Teacher'},
          '2':{'name': 'Dilip', 'Designation': 'student'},
          '5':{'name': 'Sonu', 'Designation': 'computer operator'},
          '1':{'name':'Guru', 'Designation': 'clerk'}
        }
@app.route('/')
def country():
    id = request.args.get('id')
    authenticated_users_id = [3, 2, 5]
    user = users.get(id)
    name = user.get('name') if user is not None else None
    Designation = user.get('Designation') if user is not None else
None
    user = {'is_authenticated': False, 'name': name, 'Designation':
Designation}
    if int(id) in authenticated users id:
        user['is authenticated'] = True
        return render_template('index.html', data = user)
    if int(id) not in authenticated_users_id:
        user['is_authenticated'] = False
        return render_template('index.html', data = user)
app.run(debug = True)
```

HTML File: index.html

```
<!DOCTYPE html>
<html lang="en">
    <head>
        <title>Document</title>
    </head>
    <body>
        {% if data.name == None %}
            User not found
        {% elif data.is_authenticated == True %}
            Hello {{data.name}} you can enter into this site:
{{data.Designation}}
        {% else %}
            Hello {{data.name}} you have no access to this site:
{{data.Designation}}
        {% endif %}
     </body>
</html>
```

Suppose the application is running locally on the 'http://127.0.0.1:5000', then what will be rendered by the browser for 'http://127.0.0.1:5000/?id=5', http://127.0.0.1:5000/?id=1' and 'http://127.0.0.1:5000/?id=4' respectively?

## **Options:**

6406531193937. ✓ Hello Sonu you can enter into this site: computer operator Hello Guru you have no access to this site: clerk

User not found

6406531193938. \* Hello Ram you can enter into this site: Teacher

Hello Guru you have no access to this site: Student

Hello Sonu you can enter into this site: computer operator

6406531193939. We User not found

Hello Dilip you have no access to this site: Student

Hello Sonu you can enter into this site: computer operator

6406531193940. Hello Ram you can enter into this site: Teacher

Hello Dilip you have no access to this site: Student

User not found

Question Number: 219 Question Id: 640653360461 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.

What will be the output of the above program?

## **Options:**

```
6406531193941. * 98 62
{'stud_name': 'Reeta', 'mark': '92'}
{'stud_name': 'Veena', 'mark': '88'}
{'stud_name': 'Meena', 'mark': '62'}
{'stud_name': 'uma', 'mark': '98'}
6406531193942. 

62 98
{'stud_name': 'Reeta', 'mark': '92'}{'stud_name': 'Veena', 'mark': '88'}{'stud_name':
'Meena', 'mark': '62'}{'stud_name': 'uma', 'mark': '98'}
6406531193943. * 62 98
{'stud_name': 'uma', 'mark': '92'}
{'stud name': 'Meena', 'mark': '88'}
{'stud_name': 'Veena', 'mark': '62'}
{'stud_name': 'Reeta', 'mark': '98'}
6406531193944. * 98 62
{'stud_name': 'uma', 'mark': '92'}{'stud_name': 'Meena', 'mark': '88'}{'stud_name':
'Veena', 'mark': '62'}{'stud_name': 'Reeta', 'mark': '98'}
```

Question Number : 220 Question Id : 640653360464 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 table "newtable" in SQLite database.

ID	Name	Age	Mark	course
Filter	Filter	Filter	Filter	Filter
1	Vishnu	20	98	M1
2	Kumar	18	90	M2
3	Leela	20	90	M1
4	Naren	18	98	M2
5	Vishal	19	95	M1
6	Pranav	20	95	M2
7	Vinu	19	90	M1
8	Viki	18	95	M2

What will be the output of the following SQL queries given below?

```
CREATE UNIQUE INDEX IF NOT EXISTS index_name
ON newtable (Name ASC, Mark ASC) WHERE Age>18;
SELECT ID, Name, Age, Mark, course FROM newtable WHERE Age>18;
```

## **Options:**

index\_name will be created

ID	Name Age	e Mark	course
2	Kumar18	90	M2
4	Naren 18	98	M2
8	Viki 18	95	M2

6406531193953. \* O VINI 10

index name will be created

```
ID Name Age Mark course
3 Leela 20 90 M1
6 Pranav20 95 M2
7 Vinu 19 90 M1
5 Vishal 19 95 M1
1 Vishnu20 98 M1
```

6406531193954.

6406531193955. \*\*

## index\_name will not be created

ID	Name Age	Mark	course
2	Kumar18	90	M2
4	Naren 18	98	M2
8	Viki 18	95	M2
3	Leela 20	90	M1
6	Pranav20	95	M2
7	Vinu 19	90	M1
5	Vishal 19	95	M1
1	Vishnu20	98	M1

## index\_name will not be created

ID	Name Age	Mark	course
1	Vishnu20	98	M1
2	Kumar18	90	M2
3	Leela 20	90	M1
4	Naren 18	98	M2

6406531193956. **4** Naren 18 98 M2

Question Number: 221 Question Id: 640653360466 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 snippet.

```
@app.route("/search", methods = ["GET"])
def search():
    q= request.args.get('q')
    query = "%"+q+"%"
    results = Details.query.filter(Details.Content.like(query)).all()
    Return render template("result.html", q=q, Details = results)
```

File: result.html

```
{% for item in results %}
     {{item["Title"]}}
{% endfor %}
```

SQLite table: details

	ID	Title	Content
1	1	Introduction	Java is a powerful general-purpose
2	2	learn python	Python is a powerful general-purpose
3	3	Basics	Java works on different platforms (Windo
4	4	Code	Python is currently the most widely used

If the flask application is running locally on URL: <a href="http://127.0.0.1:5000">http://127.0.0.1:5000</a>, what will be rendered by the web browser for URL <a href="http://127.0.0.1:5000/search/q=Java?">http://127.0.0.1:5000/search/q=Java?</a>

#### **Options:**

6406531193961. \*\* Introduction

Code

6406531193962. \* Java is a powerful general purpose ...

Java works on different platforms(windows)

6406531193963. \* Introduction - Java is a powerful general purpose ...

learn python - Python is a powerful general purpose ...

Basics - Java works on different platforms(windows)

6406531193964. ✓ Introduction

**Basics** 

Sub-Section Number: 8

**Sub-Section Id:** 64065352582

**Question Shuffling Allowed :** Yes

Question Number: 222 Question Id: 640653360451 Question Type: MSQ 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 Select Question** 

Consider the HTML code given below.

```
HTML file: index.html
<!DOCTYPE html>
<html lang="en">
<head>
</head>
<body>
<h1>
  <h1>CSS Selectors</h1>
  </h1>
   (div)
     <h2 id="header-id1" class="header-class">Hi, Folks!</h2>
     Welcome to IITM.
     <a href="https://iitm.ac.in">
      IIT Bsc Degree Website(/a>
     We are launching World's first online
degree course.
   </div>
   <div>
     <h2 id="header-id2">Have you enrolled to the program?</h2>
     If not, enroll now!
     <a href="https://mywebsite.com</pre>
      ">Link to Enroll</a>
     Happy Learning!
    </div>
</body>
</html>
```

## **CSS Selectors**

## Hi, Folks!

Welcome to IITM.

IIT Bsc Degree Website

We are launching World's first online degree course.

## Have you enrolled to the program?

If not, enroll now!

Link to Enroll

Happy Learning!

To obtain the output as given in figure above, which of the following snippets of CSS code must be used?

### **Options:**

```
#header-id1, #header-id2, #header-id3
{
        color: red;
}
        header-class{
        color:blue;
}
        .paragraph-class{
        color:purple;
}
p.class2{
        color:green;
}
6406531193901. **
```

```
#header-id1, #header-id2, #header-id3
{
    color: red;
}
    .header-class{
        color:blue;
}

p.class2{
        color:green;
}

#paragraph-id1, #paragraph-id2{
        color:purple;
}

6406531193902.
```

6406531193903.

```
    h2{
        color: red;
    }
    .header-class{
        color:blue;
    }
    p.class3{
        color:green;
    }
    #paragraph-id{
        color:purple;
    }
</style>
```

Sub-Section Number: 9

**Sub-Section Id:** 64065352583

**Question Shuffling Allowed:** No

Question Id: 640653360438 Question Type: COMPREHENSION Sub Question Shuffling

Allowed: No Group Comprehension Questions: No Calculator: None Response Time: N.A.

Think Time: N.A Minimum Instruction Time: 0

**Question Numbers: (223 to 224)** 

Question Label: Comprehension

Consider the following model classes "State" and "City" corresponding to tables "state" and "city"

respectively in the SQLite database.

```
class State(db.Model):
    state_id = db.Column(db.Integer(), primary_key = True)
    state_name = db.Column(db.String(50), nullable = False)
    cities = db.relationship("City", backref = "stateof")

class City(db.Model):
    city_id = db.Column(db.Integer(), primary_key = True)
    city_name = db.Column(db.String(50), nullable = False)
    state = db.Column(db.Integer(), db.ForeignKey("state.state_id"))
```

Based on the above data, answer the given subquestions.

## **Sub questions**

Question Number: 223 Question Id: 640653360439 Question Type: MSQ Is Question

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

Time: 0

**Correct Marks: 3** 

Question Label: Multiple Select Question

If an object "s1" that represents an
existing record in the table "state" is
defined as s1 = State.query.get(1),
The correct way(s) to add a city with
the name "Chennai" that belongs to
s1 using the Python console is.

#### **Options:**

```
>>> c1 = City(city_name = "Chennai", state = s1)
>>> db.session.add(c1)
>>> db.session.commit()

>>> c1 = City(city_name = "Chennai", state = 1)
>>> db.session.add(c1)
>>> db.session.add(c1)
>>> db.session.commit()
```

```
>>> c1 = City(city_name = "Chennai", stateof = s1)
>>> db.session.add(c1)
>>> db.session.commit()

>>> c1 = City(city_name = "Chennai", stateof = 1)
>>> db.session.add(c1)
>>> db.session.add(c1)
>>> db.session.commit()
```

Question Number: 224 Question Id: 640653360440 Question Type: MSQ Is Question

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

Time: 0

**Correct Marks: 3** 

Question Label: Multiple Select Question

If "s1" and "c1" are existing objects in the tables "state" and "city" respectively where:

```
s1 = State.query.filter_by(state_name = "Maharashtra").first()
and
c1 = City.query.filter_by(city_name = "Mumbai").first()
```

Which of the following statements is/are correct?

#### **Options:**

```
6406531193864. The input s1.cities on Python console will return a single object
6406531193865. The input s1.cities on Python console will return a list of object(s)
6406531193866. The input c1.state on Python console will return a single object
6406531193867. The input c1.state on Python console will return a list of object(s)
```

Question Id: 640653360443 Question Type: COMPREHENSION Sub Question Shuffling

Allowed: No Group Comprehension Questions: No Calculator: None Response Time: N.A.

Think Time: N.A Minimum Instruction Time: 0

Question Numbers: (225 to 226)

Question Label: Comprehension

Consider the following resource API for the employee information given below and answer the given subquestions.

```
from flask import Flask
from flask restful import Resource, Api, reqparse, fields,
marshal with
app = Flask(' main ')
api = Api(app)
parser = reqparse.RequestParser()
parser.add argument("first name")
parser.add argument("last name")
parser.add argument("role")
parser.add_argument("salary", type=int, help='Salary must be an
integer')
out_fields_1 = {"first_name": fields.String, "role": fields.String}
out fields 2 = {"first name": fields.String, "last name":
fields.String}
out_fields_3 = {"first_name": fields.String, "salary":
fields.Integer}
class MyApi(Resource):
    @marshal_with(out_fields_2)
    def get(self):
        info = parser.parse_args()
        return info
    @marshal_with(out_fields_1)
    def post(self):
        info = parser.parse args()
        return info
    @marshal_with(out_fields_3)
    def put(self):
        info = parser.parse_args()
        return info
api.add_resource(MyApi, '/myinfo')
app.run(debug = True)
```

Question Number: 225 Question Id: 640653360444 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 flask application is running locally on URL "http://127.0.0.1:5000/myinfo", what will be the output of the following curl request?

```
curl "http://127.0.0.1:5000/myinfo" -X POST -d "{\"first_name\":
\"Shrivatsa\",\"last_name\":\"Tandon\",\"role\":\"Analyst\",\"salary\
": 50000}" -H "Content-Type: application/json"
```

```
Options:
                     "first name": "Shrivatsa",
                     "last name": "Tandon"
6406531193876. * 1
                     "first name": "Shrivatsa",
                     "salary": 50000
6406531193877. * 3
                     "first_name": "Shrivatsa",
                     "role": "Analyst"
6406531193878
                     "first_name": "Shrivatsa",
                     "last_name": "Tandon",
                     "role": "Analyst",
                     "salary": 50000
6406531193879.
```

Question Number: 226 Question Id: 640653360445 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 flask application is running locally on URL "http://127.0.0.1:5000/myinfo", what will be the output of the following Python code snippet?

```
import requests
data = {"first_name": "Rajnish",
        "last name": "Dey",
        "role": "Manager",
        "salary": "10 thousand"}
response = requests.put('http://127.0.0.1:5000/myinfo', data = data)
print(response.json())
```

```
Options:
                    'first_name': 'Rajnish',
                    'salary': '10 thousand'
6406531193880. **
                     'first_name': 'Rajnish',
                     'role': 'Manager'
6406531193881. **
                     'first_name': 'Rajnish',
                     'last name': 'Dey'
6406531193882. **
```

6406531193883. Vone of these

# App dev2

Section Id :	64065322449		
Section Number :	7		
Section type :	Online		
Mandatory or Optional :	Mandatory		
Number of Questions :	33		
Number of Questions to be attempted :	33		
Section Marks :	100		
Display Number Panel :	Yes		
Group All Questions :	No		
Enable Mark as Answered Mark for Review and	Yes		
Clear Response :	res		
Maximum Instruction Time :	0		
Sub-Section Number :	1		
Sub-Section Id :	64065352584		
Question Shuffling Allowed :	No		
Question Number : 227 Question Id : 640653360468	3 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 A	APPLICATION DEVELOPMENT 2"		
ARE YOU SURE YOU HAVE TO WRITE EXAM FOR THIS SUBJECT? CROSS CHECK YOUR HALL TICKET TO CONFIRM THE SUBJECTS TO BE WRIT	TEN.		
(IF IT IS NOT THE CORRECT SUBJECT, PLS CHECK THE SECTION AT THE <u>TOP</u> FOR THE SUBJECTS REGISTERED BY YOU)			
Options :			
6406531193969. <b>✓</b> Yes			

**Sub-Section Number:** 

6406531193970. \* No