Group All Questions :	No
Enable Mark as Answered Mark for Review and	Yes
Clear Response :	165
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	64065384373
Question Shuffling Allowed :	No
Is Section Default? :	null
Question Number : 93 Question Id : 640653587000	Question Type : MCQ Is Question
Mandatory : No Calculator : None Response Time : Time : 0	N.A Think Time : N.A Minimum Instruction
Correct Marks : 0	
Question Label : Multiple Choice Question	
THIS IS QUESTION PAPER FOR THE SUBJECT "DIPLO	MA LEVEL : MODERN APPLICATION
DEVELOPMENT I (COMPUTER BASED EXAM) "	
ARE YOU SURE YOU HAVE TO WRITE EXAM FOR THI	
CROSS CHECK YOUR HALL TICKET TO CONFIRM THE	SUBJECTS TO BE WRITTEN.
(IF IT IS NOT THE CORRECT SUBJECT, PLS CHECK TH REGISTERED BY YOU)	E SECTION AT THE <u>TOP</u> FOR THE SUBJECTS
Options :	
6406531958668. <b>✓</b> YES	
6406531958669. <b>*</b> NO	
Sub-Section Number :	2
Sub-Section Id :	64065384374
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number: 94 Question Id: 640653587001 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 flask application and select the correct option if the application is running locally on http://127.0.0.1:5000.

```
from flask import Flask

app = Flask(__name__)

@app.route('/work')
@app.route('/home')
def my_task():
    return "<h1>Hello! Reporting for my task</h1>"

app.run()
```

# **Options:**

6406531958670. \* The application will return 200 OK status code for /home endpoint only

6406531958671. \* The application will return 200 OK status code for /work endpoint only

6406531958672. ✓ The application will return 200 OK status code for both the endpoints

6406531958673. \* The application will throw an AssertionError for both the endpoints

Question Number: 95 Question Id: 640653587002 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 about OpenAPI Specification (OAS) is true?

# **Options:**

6406531958674. A OAS is a programming language used for building APIs.

6406531958675. ✓ OAS is a way to describe interfaces for building RESTful APIs.

6406531958676. \* OAS is a tool used for testing the performance of APIs.

6406531958677. \* OAS is a software library used for authenticating API requests.

Question Number: 96 Question Id: 640653587005 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

Map the terms in column A with their correct interpretations in column B.

	Column A		Column B
a	Scale up	1	financial transactions
b	ACID	2	adding more physical servers
С	Scale out	3	increasing RAM
d	BASE	4	social media

6406531958686. 
$$\checkmark$$
 a  $\rightarrow$  3, b  $\rightarrow$  1, c  $\rightarrow$  2, d  $\rightarrow$  4

6406531958687. \* 
$$a \rightarrow 4$$
,  $b \rightarrow 2$ ,  $c \rightarrow 1$ ,  $d \rightarrow 3$ 

6406531958688. \* 
$$a \rightarrow 4$$
,  $b \rightarrow 3$ ,  $c \rightarrow 1$ ,  $d \rightarrow 2$ 

6406531958689. **\*\*** 
$$a \rightarrow 3$$
,  $b \rightarrow 2$ ,  $c \rightarrow 1$ ,  $d \rightarrow 4$ 

Question Number: 97 Question Id: 640653587011 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 view function.

If this 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 URLs will be handled by the controller correctly?

# **Options:**

```
6406531958710. ★ http://127.0.0.1:5000/student/Electrical/Diploma/MAD1
6406531958711. ★ http://127.0.0.1:5000/Electrical/Diploma/MAD1
6406531958712. ✔ http://127.0.0.1:5000/student?dept=Electrical&level=Diploma&course=MAD1
6406531958713. ★ http://127.0.0.1:5000?endpoint=student&dept=Electrical&level=Diploma&course=MAD1
```

Sub-Section Number: 3

**Sub-Section Id:** 64065384375

**Question Shuffling Allowed :** Yes

Is Section Default?: null

Question Number: 98 Question Id: 640653587003 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?

```
def modify(n):
    def modifier(n):
        ser = [0,1]
        for i in range(n-2):
            new = ser[i]+ser[i+1]
            ser.append(new)
        print(ser)
    return modifier

@modify
def list_num(n):
    nums = []
    for i in range(n):
        nums.append(i+1)
    print(nums)
```

```
6406531958678. * [0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
6406531958679. * [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
6406531958680. * [0, 1, 1, 2, 3, 5, 8, 13, 21]
6406531958681. * [0, 1, 1, 2, 3, 5, 8, 13, 21, 34]
```

Question Number: 99 Question Id: 640653587006 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 file given below.

index.html

```
<!DOCTYPE html>
<html lang="en">
(head)
    <title>Document</title>
    <style>
        input:invalid {
            background: red;
        input:valid {
            background: green;
    </style>
</head>
<body>
    (form>
        <label for="uname">Enter a valid e-mail:</label>
        <input type="text" name="uname" minlength="8">
    </form>
</body>
</html>
```

Suppose the index.html is rendered on the browser. What will be the background color of the input box when the user enters the name "madcourse.mail.com"?

```
6406531958690. * red
6406531958691. * white
6406531958692. ✓ green
```

Question Number: 100 Question Id: 640653587008 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.

```
from flask import Flask
from flask_restful import Api, Resource

app = Flask(__name__)
api = Api(app)

class MyApi(Resource):
    def get(self):
        return {"greet":"Hello from GET Api!"}

    def put(self):
        return {"greet":"Hello from PUT Api!"}

api.add_resource(MyApi, '/api/get', '/api/put', '/api/post')

app.run()
```

If this application is running locally on http://127.0.0.1:5000, which of the following curl commands will throw an error?

```
    curl http://127.0.0.1:5000/api/get -X get
    curl http://127.0.0.1:5000/api/put -X put
    curl http://127.0.0.1:5000/api/post -X post
    curl http://127.0.0.1:5000/api/get -X put
    curl http://127.0.0.1:5000/api/put -X get
    curl http://127.0.0.1:5000/api/post -X get
    curl http://127.0.0.1:5000/api/post -X get
```

### **Options:**

```
6406531958698. ✓ Only 3
```

6406531958699.

```
Only 3 and 4
6406531958700.
Only 5 and 6
Only 3, 4, 5 and 6
```

Question Number: 101 Question Id: 640653587010 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 code.

```
from flask import Flask
app = Flask(__name__)

@app.route('/')
def generate1():
    return "This is generate1"

@app.route('//')
def generate2():
    return "This is generate2"

@app.errorhandler(404)
def page_not_found(e):
    # setting 404 status explicitly
    return 'page not found'

app.run()
```

If the flask application is running on <a href="http://127.0.0.1:5000">http://127.0.0.1:5000</a>, what will browser render for URL <a href="http://127.0.0.1:5000/">http://127.0.0.1:5000//</a>

```
6406531958706. * Page not found 6406531958707. * This is generate2 6406531958708. ✓ This is generate1 6406531958709. * Code will throw error
```

Question Number: 102 Question Id: 640653587016 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

In the code snippet given below, what should come in place of *code 1* and *code 2* such that one parent can have multiple children and the converse does not hold true?

```
from sqlalchemy import ForeignKey
from sqlalchemy import Integer, Column
from sqlalchemy.orm import DeclarativeBase
from sqlalchemy.orm import relationship

class Base(DeclarativeBase):
    pass

class Parent(Base):
    __tablename__ = "parent_table"
    id = Column(Integer, primary_key=True)
    # write your code 1 here

class Child(Base):
    __tablename__ = "child_table"
    id = Column(Integer, primary_key=True)
# write your code 2 here
```

```
code 1: parent_id=Column(Integer, ForeignKey("child_table.id"))
code 2: children = relationship("Parent")

code 1: children = relationship("Child")
code 2: parent_id=Column(Integer, ForeignKey("parent_table.id"))

code 1: parent_id=Column(Integer, ForeignKey("parent_table.id"))

code 1: parent_id=Column(Integer, ForeignKey("parent_table.id"))
code 2: children = relationship("Child")
```

```
code 1: children = relationship("Parent")
code 2: parent_id=Column(Integer, ForeignKey("child_table.id"))
6406531958730.**
```

Sub-Section Number: 4

**Sub-Section Id:** 64065384376

**Question Shuffling Allowed:** Yes

Is Section Default?: null

Question Number: 103 Question Id: 640653587004 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 models Brand and Cellphone corresponding to tables brand and cellphone in SQLite database.

```
class Brand(db.Model):
    id = db.Column(db.Integer(), primary_key = True)
    name = db.Column(db.String(), unique = True)

class Cellphone(db.Model):
    id = db.Column(db.Integer(), primary_key = True)
    name = db.Column(db.String(), unique = True)
    brand = db.Column(db.Integer(), unique = True, db.ForeignKey("brand.id"))
```

Based on the model schemas, what relationship do the classes Brand and Cellphone share?

```
6406531958682. ✓ One-to-One
6406531958683. ※ One-to-Many
6406531958684. ※ Many-to-Many
6406531958685. ※ The tables are not at all related
```

Question Number: 104 Question Id: 640653587012 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 schema for the Class Student.

What will be the output of the flask sqlalchemy command given below?

# **Options:**

```
Yash
Raj
Yash
Maurya
Ansh
Raj
```

6406531958714.

Ansh Maurya Yash Maurya Ansh Raj

> Ansh Maurya Ansh Maurya Ansh Raj

6406531958716. \*\*

6406531958717. \*\* None

**Sub-Section Number:** 5

**Sub-Section Id:** 64065384377

**Question Shuffling Allowed :** Yes

Is Section Default?: null

Question Number: 105 Question Id: 640653587007 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 Max. Selectable Options: 0

Question Label: Multiple Select Question

Consider the following route in the flask for a signup page and select the correct option.

```
@app.route('/signup', methods=['GET', 'POST'])
def signup():
     if request.method == 'GET':
            return """<form action='/signup' method='POST'>
              <label for='username'>Username</label>
              <input type='text' name='username' required>
              <label for='password'>Password</label>
              <input type='text' name='password' required minlength="8">
              <input type='submit' value='Submit'>
              </form>
     if request.method == 'POST':
            if request.form.get('username') is None:
                  return redirect(url for(signup))
            if request.form.get('password') is None:
                  return redirect(url for(signup))
            if len(request.form.get('password')) < 8:</pre>
                  return redirect(url for(signup))
            return f"<h1>Welcome, {request.form.get('username')}!</h1>"
```

## **Options:**

6406531958694. ✓ The signup page is dynamically generated.

6406531958695. ✓ The signup page uses server-side rendering.

6406531958696. \* The signup page uses frontend validation only.

6406531958697. ✓ The signup page uses backend validation.

Question Number: 106 Question Id: 640653587009 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 Max. Selectable Options: 0

Question Label: Multiple Select Question

Consider the following flask app. Given that test\_request\_context() allows text to be printed on the terminal, which of the following statements is/are correct?

```
from flask import Flask, url_for

app = Flask(__name__)

@app.route('/home')
def index():
    return 'Mad-I welcomes you!'

@app.route('/user/<username>')
def profile(username):
    return f'{username}\'s profile'

with app.test_request_context():
    #== print statement ==#
```

# **Options:**

```
If #== print statement ==# is replaced by print(url_for('home')), the output on the terminal will be Mad-I welcomes you!.

If #== print statement ==# is replaced by print(url_for('profile', username='Harry')), the output on the terminal will be /user/Harry

If #== print statement ==# is replaced by print(url_for('profile', username='Harry', next='course')), the output on the terminal will be /user/Harry/course

If #== print statement ==# is replaced by print(url_for('index', username='Harry')), the output on the terminal will be /username='Harry')), the output on the terminal will be /home?username=Harry
```

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Sub-Section Number :

**Sub-Section Id:** 64065384378

**Question Shuffling Allowed :** Yes

Question Number: 107 Question Id: 640653587013 Question Type: MSQ Is Question

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

Time: 0

Correct Marks: 3 Max. Selectable Options: 0

Question Label: Multiple Select Question

Which of the following is/are valid JSON format.

## **Options:**

```
"Age": 27,
"firstName": "John",
"lastName": "Pollard",
"married": false,
"phone_numbers": ["212-555-1234", "212-666-5678"]
```

6406531958718. **✓** 

```
"RollNumber": 11,
                     "firstName": "Nick",
                     "lastName": "Paul",
                     "phone_numbers": [2125551234, "2124441234"]
6406531958719.
```

```
"firstName": "Will",
"lastName": "Smith",
"address": [
  "addressLine": "Lake Union Hill Way",
  "city": "Atlanta",
  "zipCode": 50005
]
```

6406531958720.

```
{
    "firstName": "Hannah",
    "lastName": "Smith",
    "cities": ["Dallas", "San Antonio", "Irving"],
    "phone_numbers": ["212-555-1234", "212-666-5678"]
}
```

Question Number: 108 Question Id: 640653587015 Question Type: MSQ Is Question

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

Time: 0

Correct Marks: 3 Max. Selectable Options: 0

Question Label: Multiple Select Question

Consider the following flask application.

```
from flask import Flask, render_template, request
app = Flask(__name__)

@app.route('/')
def out():
    val = request.args

    if val['num'] == '':
        return "<html><body> <h1>Invalid number</h1></body></html>"
    elif val['num'].isalpha()==True:
        return "<html><body><h1>Enter a valid number</h1></body></html>"
    else:
        out = int(val['num']) * int(val['num'])
        return f'<html><body> <h1>The output is {out}</h1></body></html>'

if(__name__ == "__main__"):
    app.run(debug=True)
```

If this flask app is running locally on <a href="http://localhost:5000">http://localhost:5000</a>, then which of the following statements is/are correct?

### **Options:**

For URL: <a href="http://localhost:5000/?num=abc">http://localhost:5000/?num=abc</a>

6406531958723. \* Output is: Invalid number

For URL: <a href="http://localhost:5000/?num=abc">http://localhost:5000/?num=abc</a>

6406531958724. ✓ Output is: Enter a valid number

For URL: http://localhost:5000/?num=

6406531958725. ✓ Output is: Invalid number

For URL: <a href="http://localhost:5000/?num=12">http://localhost:5000/?num=12</a>

6406531958726. \* Output is: The output is 1212

Sub-Section Number: 7

**Sub-Section Id:** 64065384379

**Question Shuffling Allowed :** Yes

Is Section Default?: null

Question Number: 109 Question Id: 640653587014 Question Type: SA Calculator: None

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

**Correct Marks: 3** 

Question Label: Short Answer Question

Consider the following flask application.

```
from flask import Flask, redirect, url for
app = Flask( name )
@app.route('/admin')
def hello_admin():
   return 'Hello Admin'
@app.route('/guest/<guest>')
def hello_guest(guest):
   return 'Hello ' +guest+ ' as Guest'
@app.route('/user/<name>')
def hello_user(name):
   if name =='admin':
      return redirect(url for('hello admin'))
   else:
      return redirect(url_for('hello_guest', guest = name))
if __name__ == '__main__':
   app.run(debug = True)
```

If this flask app is running locally on <a href="http://localhost:5000">http://localhost:5000</a>, what is the output for the following URL?

For input: <a href="http://localhost:5000/user/admin?guest=appdev1">http://localhost:5000/user/admin?guest=appdev1</a>

**Response Type:** Alphanumeric

**Evaluation Required For SA:** Yes

**Show Word Count:** Yes

**Answers Type:** Equal

**Answers Case Sensitive: No** 

**Text Areas:** PlainText

**Possible Answers:** 

Hello Admin

# MLF

**Section Id:** 64065339714

Section Number :

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