

AppDev1

Section Id :	64065330333
Section Number :	7
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	17
Number of Questions to be attempted :	17
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 :	64065367679
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 103 Question Id : 640653470029 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"

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 :

6406531561972. ✓ YES

6406531561973. ✗ NO

Sub-Section Number :	2
Sub-Section Id :	64065367680
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 104 Question Id : 640653470030 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 simple web server using command prompt.

Filename - Hello.sh

```
#!/bin/bash
while true; do
    echo -e "Today's date and time is \n\t $(date)"
    | nc -l localhost 3500;
done
```

If this program is executed in one terminal, and it is waiting for a request, then identify the client part that generates the request to this server.

Options :

6406531561974. ✗ Open another terminal and type - curl <http://localhost:8080>

6406531561975. ✓ Open another terminal and type - curl <http://localhost:3500>

6406531561976. ✗ Type curl <http://localhost:3500> in the server running terminal

6406531561977. ✗ Type curl <http://localhost:8080> in the server running terminal

Question Number : 105 Question Id : 640653470036 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

Match the component in column A with its correct feature given in column B.

Column A	Column B
1. Telephone Networks	a. Wires occupied only when data to be sent
2. Packet Switched Networks	b. First public packet switched network
3. ARPANET	c. Physical wires tied up for duration of call even if nothing said
4. TCP	d. Establishes reliable communications

Options :

6406531561998. ✖ 1 - a, 2 - b, 3 - c, 4 - d

6406531561999. ✖ 1 - b, 2 - d, 3 - a, 4 - c

6406531562000. ✖ 1 - d, 2 - c, 3 - b, 4 - a

6406531562001. ✔ 1 - c, 2 - a, 3 - b, 4 - d

Question Number : 106 Question Id : 640653470038 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

Which of the following is an incorrect way of creating an ordered list in HTML?

Options :

```
<ol type = "1">
  <li>programming</li>
  <li>Data Science</li>
  <li>Artificial Intelligence</li>
</ol>
```

6406531562006. ✖

6406531562007. ✖

```
<ol type = "a">
  <li>programming</li>
  <li>Data Science</li>
  <li>Artificial Intelligence</li>
</ol>
```

6406531562008. ✔

```
<ul type = "i">
  <li>programming</li>
  <li>Data Science</li>
  <li>Artificial Intelligence</li>
</ul>
```

6406531562009. ✖

```
<ol>
  <li>programming</li>
  <li>Data Science</li>
  <li>Artificial Intelligence</li>
</ol>
```

Question Number : 107 Question Id : 640653470040 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 jinja2 import Template

newlist = ['client', 'server', 'markup', 'api', 'url', 'net' ]

this_template = "{% for object in data %} \\
{% if object|length>4 %}{{object }}{% endif %}{% endfor %}"

out = Template(this_template)

print(out.render(data = newlist))
```

What will be the output on the terminal?

Options :

6406531562014. ✖

api url net

6406531562015. ✖

apiurlnet

6406531562016. ✖

client server markup

6406531562017. ✔

clientservermarkup

Question Number : 108 Question Id : 640653470041 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 two python files, home.py and hello.py with following code snippets.

File1: home.py

```
import sys
import hello
print('Hello' + ' ' + sys.argv[1])
```

File2: hello.py

```
import sys
print('Hello' + ' ' + sys.argv[0])
```

What is the output of the following command “python home.py hello.py Mithun Sourav”?

Options :

6406531562018. ✖ Hello home.py
Hello home.py

6406531562019. ✖ Hello hello.py
Hello hello.py

6406531562020. ✔ Hello home.py
Hello hello.py

6406531562021. ✖ Hello Mithun
Hello Sourav

Question Number : 109 Question Id : 640653470043 Question Type : MCQ Is Question

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

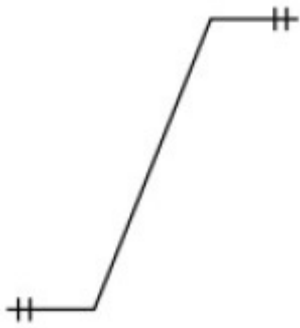
Correct Marks : 3

Question Label : Multiple Choice Question

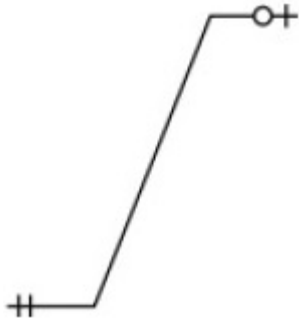
Which of the following option represents a one-to-many relationship in the Entity-Relationship Diagram?

Options :

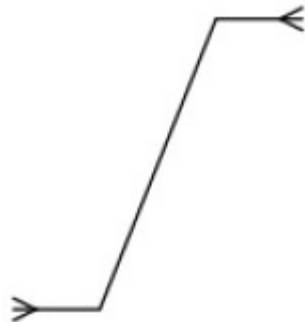
6406531562026. ✖



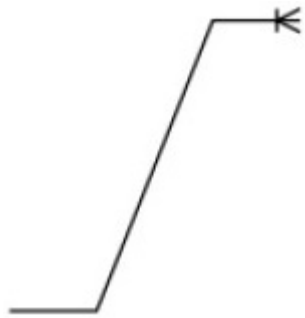
6406531562027. ✖



6406531562028. ✖



6406531562029. ✔



Question Number : 110 Question Id : 640653470044 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 text document of size 2000 bytes. Each character in the document are 8 bits ASCII encoding.

What is the number of characters in the text document?

[Note: 8 bits = 1 byte]

Options :

6406531562030. ✖ 250

6406531562031. ✖ 1000

6406531562032. ✔ 2000

6406531562033. ✖ 8000

Sub-Section Number :	3
Sub-Section Id :	64065367681
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 111 Question Id : 640653470031 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

Ram wants to do the following operations on his bank website through the browser.

Find the HTTP methods conventionally used for the following operations?

1. To create a new fixed deposit account
2. To read his transaction history
3. To update the account after the transaction of money.
4. To remove his unused account.

Options :

6406531561978. ✖ 1 - GET, 2- POST, 3 - PUT, 4 - DELETE

6406531561979. ✖ 1 - POST, 2- GET, 3 - PUT, 4 - PATCH

6406531561980. ✔ 1 - POST, 2- GET, 3 - PUT, 4 - DELETE

6406531561981. ✖ 1 - PUT, 2- GET, 3 - POST, 4 - DELETE

Question Number : 112 Question Id : 640653470033 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

How to represent the number 111_{10} in the binary format?

Options :

6406531561986. ✖ 1110000

6406531561987. ✔ 1101111

6406531561988. ✖ 1100000

6406531561989. ✖ 1111000

Question Number : 113 Question Id : 640653470034 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

Find the output of the python program for the given command line arguments

Program:

```
import sys

a,b,c = sys.argv[1], sys.argv[2], sys.argv[3]
print(b,c)
```

Execution with command line arguments:

\$ python3 cl.py 10 11 12

Options :

6406531561990. ✖ cl.py 10

6406531561991. ✖ 10 11

6406531561992. ✔ 11 12

6406531561993. ✖ cl.py 11

Question Number : 114 Question Id : 640653470035 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

Match the component in column A with its correct feature given in column B.

Column A	Column B
1. Server	a. Data Pipeline
2. Client	b. Explicit Server(s), Explicit Client(s)
3. Client-Server Architecture	c. User Interaction
4. Network	d. Provides data on demand

Options :

6406531561994. ✖ 1 - a, 2 - b, 3 - c, 4 - d

6406531561995. ✖ 1 - b, 2 - d, 3 - a, 4 - c

6406531561996. ✔ 1 - d, 2 - c, 3 - b, 4 - a

6406531561997. ✖ 1 - c, 2 - a, 3 - b, 4 - d

Sub-Section Number : 4

Sub-Section Id : 64065367682

Question Shuffling Allowed : Yes

Is Section Default? : null

Question Number : 115 Question Id : 640653470032 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

Choose the SQL queries that correctly map the **view** application component of the MVC model based on the given table Student.

Table: Student

ID	Name	Age	Marks	Courses
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

1. CREATE TABLE Student (ID int NOT NULL, Name varchar(255) NOT NULL, Age int, Marks int, Courses varchar(255), PRIMARY KEY (ID));
2. Select * from Student;
3. Select Name, Courses from Student where Marks>90;
4. UPDATE Student SET Name = 'Amrith', Age = 21 WHERE ID = 5;

Options :

6406531561982. ✖ 1,2,3,4

6406531561983. ✖ 1,2,3

6406531561984. ✖ 1,3

6406531561985. ✔ 2,3

Question Number : 116 Question Id : 640653470037 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

Read the statements given below carefully and select the correct option.

Statement 1: If an element that belongs to two different classes is styled externally using both the classes, then for the same attribute, it will acquire styling from the latest class in order.

Statement 2: If an element having an ID and a class is styled externally using both its ID and the class, then for the same attribute, it will acquire styling from the latest selector in order.

Options :

6406531562002. ✖ Both statements 1 and 2 are correct

6406531562003. ✖ Both statements 1 and 2 are incorrect

6406531562004. ✔ Statement 1 is correct but statement 2 is incorrect

6406531562005. ✖ Statement 2 is correct but statement 1 is incorrect

Question Number : 117 Question Id : 640653470039 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.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <style>
    #mybox{
      border-style: dashed;
      background-color: orange;
    }
    .boxes{
      border-style: solid;
      border-color: blue;
    }
    div{
      width: 200px;
      border: 4px dotted yellow;
    }
  </style>
</head>
<body>
  <div id="mybox" class="boxes" style="background-color: limegreen;">
    <h1>Hello MAD-I</h1>
  </div>
</body>
</html>
```

How will the browser render the above HTML document?

Options :

6406531562010. ✖



6406531562011. ✖



6406531562012. ✔



6406531562013. ✖

Sub-Section Number :	5
Sub-Section Id :	64065367683
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 118 Question Id : 640653470042 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 Selectable Option : 0

Question Label : Multiple Select Question

Consider the following two tables, subject and student in SQLite database:

student:

RollNo	Name	SubjectID
1	Kavi	S1
2	Subhash	S2
3	Nazrul	S1
4	Tagore	S3
5	Rohit	S2
6	Sourav	S1

subject:

SubjectID	SubjectName
S1	Bengali
S2	English
S3	Hindi

Which of the following SQL query will return the name of the students who took the “Bengali” subject?

Options :

6406531562022. ✓

```
SELECT student.Name FROM student, subject WHERE student.SubjectID =  
subject.SubjectID AND subject.SubjectName = 'Bengali'
```

6406531562023. ✓

```
SELECT student.Name FROM student INNER JOIN subject ON  
student.SubjectID = subject.SubjectID WHERE subject.SubjectName =  
'Bengali'
```

6406531562024. ✖

```
SELECT student.Name FROM student, subject WHERE student.SubjectID =  
subject.SubjectID OR subject.SubjectName = 'Bengali'
```

6406531562025. ✓

```
SELECT student.Name FROM student NATURAL JOIN subject WHERE  
subject.SubjectName = 'Bengali'
```

Sub-Section Number :	6
Sub-Section Id :	64065367684
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 119 Question Id : 640653470045 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3 Selectable Option : 0

Question Label : Multiple Select Question

Which of the following are the correct regarding the web server?

Options :

- 6406531562034. ✔ A web server is a computer system capable of delivering web content over the internet.
- 6406531562035. ✔ A web server sends the response as an HTML document which is rendered on the user's screen.
- 6406531562036. ✔ A web server listens for incoming network connections on a fixed port.
- 6406531562037. ✖ A web server is a software that allows to send the request over the internet.

MLF

Section Id :	64065330334
Section Number :	8
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