Question Type: MCQ

Question:
Considering the given statement in Python 
`Print("Hello world")`
What type of error will be generated?

A: Value Error
B: Logical Error
C: Name Error
D: Syntax Error

Question Type: MCQ

Question:
The British scientist who invented world wide web in 1990 is ____
A: Allen Turing
B: Claude Shannon
C: Tim Berners Lee
D: Herman Hollerith

Question Type: MCQ

Question:
Read the following statements and arrange in correct order.
A. Exception is raised
B. Executes exception
C. Program searches for exception handler
D. Create exception object
E. An error encountered

Choose the correct answer from the options given below:
A: A→B→C→D→E
B: E→D→C→A→B
C: E→D→B→C→A
D: E→D→A→C→B
### Section: COMPULSORY
### Item No: 4
### Question ID: 713014
### Question Type: MCQ

**Question:** In SQL, like condition allows you to use wild card characters to perform matching. Which of the following is a valid wild card character?

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>#</td>
</tr>
<tr>
<td>B</td>
<td>$</td>
</tr>
<tr>
<td>C</td>
<td>*</td>
</tr>
<tr>
<td>D</td>
<td>%</td>
</tr>
</tbody>
</table>

### Section: COMPULSORY
### Item No: 5
### Question ID: 713015
### Question Type: MCQ

**Question:** Match List I with List II.

<table>
<thead>
<tr>
<th>List I</th>
<th>List II</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Data redundancy</td>
<td>I. Updating the structure of a data file requires modification in all the application programs accessing the file.</td>
</tr>
<tr>
<td>B. Data inconsistency</td>
<td>II. Duplication of data at different places/files</td>
</tr>
<tr>
<td>C. Data Isolation</td>
<td>III. Separation of resource or data modification made by different transactions.</td>
</tr>
<tr>
<td>D. Data dependency</td>
<td>IV. Mismatch of data, maintained at different places.</td>
</tr>
</tbody>
</table>

Choose the correct answer from the options given below:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>A-IV, B-II, C-I, D-III</td>
</tr>
<tr>
<td>B</td>
<td>A-II, B-IV, C-III, D-I</td>
</tr>
<tr>
<td>C</td>
<td>A-II, B-IV, C-I, D-III</td>
</tr>
<tr>
<td>D</td>
<td>A-III, B-I, C-II, D-IV</td>
</tr>
</tbody>
</table>

### Section: COMPULSORY
### Item No: 6
### Question ID: 713016
### Question Type: MCQ

**Question:** Rohan starting working on MYSQL server. Kindly arrange the the following commands in a sequence so that he can create a table, then insert a record into it and display all the records.

A. Insert into command  
B. Create database <databasename>;  
C. Create table command  
D. Use <databasename>;  
E. Select * from <tablename>;

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Insert into command</td>
</tr>
<tr>
<td>B</td>
<td>Create database &lt;databasename&gt;;</td>
</tr>
<tr>
<td>C</td>
<td>Create table command</td>
</tr>
<tr>
<td>D</td>
<td>Use &lt;databasename&gt;;</td>
</tr>
<tr>
<td>E</td>
<td>Select * from &lt;tablename&gt;;</td>
</tr>
</tbody>
</table>
Choose the correct answer from the options given below:

**Question 1:**

A: B D C A E  
B: B A E D C  
C: A B E D C  
D: A C D B E

**Section:** COMPULSORY  
**Item No:** 7  
**Question ID:** 713017  
**Question Type:** MCQ  
**Question:** is not a DDL command.
A: Drop  
B: Alter  
C: Update  
D: Create

**Question 2:**

A: Constraints  
B: Keys  
C: Schema  
D: Query

**Section:** COMPULSORY  
**Item No:** 8  
**Question ID:** 713018  
**Question Type:** MCQ  
**Question:** is known as design of a database.
A: Constraints  
B: Keys  
C: Schema  
D: Query

**Question 3:**

Mr. Sameer wants to connect 20 systems, which are present within a single hall. Help him choose the best device out of the following to achieve his purpose. [Note that the data arriving on any of the lines should be sent to the intended node/receiver only]
A: Repeater  
B: Hub  
C: Switch  
D: Gateway

**Section:** COMPULSORY  
**Item No:** 9  
**Question ID:** 713019  
**Question Type:** MCQ  
**Question:**

**Question 4:**

In file mode ____, the file offset position is end of the file.
A:  
B:  
C:  
D:  

**Section:** COMPULSORY  
**Item No:** 10  
**Question ID:** 7130110  
**Question Type:** MCQ  
**Question:**

A:  
B:  
C:  
D:  
| Section: COMPULSORY | Item No: 11 | Question ID: 7130111 | Question Type: MCQ | Question: Choose the correct output of the following SQL query: Select MID("SAVE ENVIRONMENT",6,7); | A: E ENVIR | B: ENVIRO | C: ENVIRON | D: ENVIRONMENT |

| Section: COMPULSORY | Item No: 12 | Question ID: 7130112 | Question Type: MCQ | Question: A mobile connected to a laptop through USB is an example of _____. | A: LAN | B: WAN | C: MAN | D: PAN |

| Section: COMPULSORY | Item No: 13 | Question ID: 7130113 | Question Type: MCQ | Question: Which command is used to delete table from a database? | A: Delete Table <tableName>; | B: Drop Table <tableName>; | C: Delete <tableName>; | D: Drop Table <tableName> from <tableName>; |

| Section: COMPULSORY | Item No: 14 | Question ID: 7130114 | Question Type: MCQ | Question: Match List I with List II | List I | List II |
Question:

Choose the correct answer from the options given below:

A: A-II, B-I, C-IV, D-III
B: A-I, B-IV, C-II, D-III
C: A-II, B-IV, C-I, D-III
D: A-III, B-I, C-II, D-IV

---

Section: COMPULSORY
Item No: 15
Question ID: 7130115
Question Type: MCQ
Question:

Given the following SQL string functions: `middle()`, `mid()`, `substr()`, `substring()`
Find the odd-one out.

A: `mid()`
B: `substr()`
C: `middle()`
D: `substring()`

---

Section: COMPUTER SCIENCE
Item No: 16
Question ID: 7130116
Question Type: MCQ
Question:

Given below are two statements:

**Statement I.**
When all the value are sorted in ascending or descending order, the middle value is called mode.

**Statement II.**
Value that appears most number of times in the given data of an attribute/variable is called mode.

In the light of the above statements, choose the correct answer from the options given below:

A: Both statement I and Statement II are true
B: Both statement I and Statement II are false
C: Statement I is correct but statement II is false
D: Statement I is incorrect but statement II is true

---

Section: COMPUTER SCIENCE
Item No: 17
Question ID: 7130117
Question Type: MCQ
Question:

Adjacent elements are compared and swapped in ______ sorting technique.
Section: COMPUTER SCIENCE
Item No: 18
Question ID: 7130118
Question Type: MCQ
Question:
Which of the following statements are correct for Queue?

A. Queue is an ordered linear data structure
B. Deque can support both stack and queue operations
C. Queue is a non-linear data structure
D. Deque works on FILO principle
E. Deque is a version of Queue which does not allow insertion and deletion at both ends

Choose the correct answer from the options given below:

A: A and C only
B: A and B only
C: B and C only
D: A, B and E only

Section: COMPUTER SCIENCE
Item No: 19
Question ID: 7130119
Question Type: MCQ
Question:
The default reference point for file-object.seek(offset,[reference point]) is:

A: 0
B: -1
C: 1
D: 2

Section: COMPUTER SCIENCE
Item No: 20
Question ID: 7130120
Question Type: MCQ
Question:
From a text file “myfile.txt”, Kriti will read next line through file object F1 using

A: F1.readlines()
B: F1.readline()
C: F1.readnext()
D: F1.read()
| Question ID: 7130121 | Question Type: MCQ | Question: The postfix form of A * B + C/D is  
A: *AB/CD +  
B: A*BC+/D  
C: AB*CD+/  
D: ABCD+/* |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Section: COMPUTER SCIENCE</td>
<td>Item No:</td>
<td>22</td>
</tr>
</tbody>
</table>
| Question ID: 7130122 | Question Type: MCQ | Question: The file offset position of a file opened in < > mode is  
A: End of the file  
B: Beginning of the file  
C: Any where in the file  
D: One byte before the end of the file |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Section: COMPUTER SCIENCE</td>
<td>Item No:</td>
<td>23</td>
</tr>
</tbody>
</table>
| Question ID: 7130123 | Question Type: MCQ | Question: Consider the following python code:  
```python  
def myDiv(x, y):  
    if y == 0:  
        raise ZeroDivisionError  
    return x/y  
```  
What is the output of the following?  
n=myDiv(4,0)  
print(n)  
A: 0.0  
B: No output  
C: ZeroDivisionError  
D: ValueError |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Section: COMPUTER SCIENCE</td>
<td>Item No:</td>
<td>24</td>
</tr>
</tbody>
</table>
| Question ID: 7130124 | Question Type: MCQ | Question: Communication mode allows communication in both directions simultaneously.  
A: Simplex  
B: Half duplex  
C: Full duplex  
D: Half simplex |
Choose the advantages of a database over file system from the following statements.

A. Reduces data redundancy and saves storage.
B. Sharing of data is possible.
C. Difficult to access the data in a formatted way.
D. Data inconsistency is reduced to a larger extent
E. Databases are not portable.

Choose the correct answer from the options given below:

A: B, C, and D only
B: A, B and D only
C: A, B and E only
D: A, C and D only

The like operator makes use of two wildcard characters underscore (_) and %. Which of the following statement(s) is/are correct w.r.t these operators?

A. % represents zero, one or multiple characters
B. Underscore represents zero, one or multiple characters
C. Underscore represents only multiple characters
D. Underscore represents exactly a single character
E. % represents zero character

Choose the most appropriate answer from the options given below:

A: A and D only
B: A and C only
C: A only
D: B and E only

ABC fitness centre has computerized their Gym by keeping details of their Trainees in Trainer table and clients in Customer table which are as follows:

<table>
<thead>
<tr>
<th>TId</th>
<th>TName</th>
<th>Activity</th>
<th>Salary</th>
<th>Dt_Appoint</th>
</tr>
</thead>
<tbody>
<tr>
<td>G101</td>
<td>Manish</td>
<td>Kick Boxing</td>
<td>18000</td>
<td>2020-10-12</td>
</tr>
</tbody>
</table>
Table: Customer

<table>
<thead>
<tr>
<th>Clid</th>
<th>Cust_Name</th>
<th>Gender</th>
<th>Tid</th>
<th>Fee</th>
<th>Membership</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1</td>
<td>Sabina</td>
<td>F</td>
<td>G101</td>
<td>10000</td>
<td>12</td>
</tr>
<tr>
<td>C2</td>
<td>Rohit</td>
<td>M</td>
<td>G101</td>
<td>9000</td>
<td>10</td>
</tr>
<tr>
<td>C3</td>
<td>Asad</td>
<td>M</td>
<td>G102</td>
<td>12000</td>
<td>15</td>
</tr>
<tr>
<td>C4</td>
<td>John</td>
<td>M</td>
<td>G103</td>
<td>6000</td>
<td>6</td>
</tr>
<tr>
<td>C5</td>
<td>Aastha</td>
<td>F</td>
<td>G104</td>
<td>8000</td>
<td>8</td>
</tr>
<tr>
<td>C6</td>
<td>Neha</td>
<td>F</td>
<td>G102</td>
<td>9000</td>
<td>10</td>
</tr>
<tr>
<td>C7</td>
<td>Zubain</td>
<td>M</td>
<td>G102</td>
<td>10000</td>
<td>12</td>
</tr>
<tr>
<td>C8</td>
<td>Deljeet</td>
<td>F</td>
<td>G104</td>
<td>6000</td>
<td>6</td>
</tr>
</tbody>
</table>

Answer the questions based on above tables.

Question: Choose correct SQL query to Display the details of all male customers having membership more than 10 months.

A: `Select * from Customer Where Gender = "M" and Membership >10;`

B: `Select Clid, CName, Fee from Customer Where Gender="M" and Membership>="10";`

C: `Select * from Customer Where Gender="Male" and Membership<10;`

D: `Select * from Customer Where Gender="M" or Membership>10;`
ABC fitness centre has computerized their Gym by keeping details of their Trainees in Trainer table and clients in Customer table which are as follows:

Table: Trainer

<table>
<thead>
<tr>
<th>TId</th>
<th>TName</th>
<th>Activity</th>
<th>Salary</th>
<th>Dt_Appoint</th>
</tr>
</thead>
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<td>18000</td>
<td>2020-10-12</td>
</tr>
<tr>
<td>G102</td>
<td>Sachin</td>
<td>Core</td>
<td>22000</td>
<td>2021-06-09</td>
</tr>
<tr>
<td>G103</td>
<td>Aahan</td>
<td>Core</td>
<td>25000</td>
<td>2020-05-30</td>
</tr>
<tr>
<td>G104</td>
<td>Aparna</td>
<td>Zumba</td>
<td>15000</td>
<td>2021-11-12</td>
</tr>
<tr>
<td>G105</td>
<td>Nitin</td>
<td>Yoga</td>
<td>20000</td>
<td>2022-02-15</td>
</tr>
</tbody>
</table>

Table: Customer

<table>
<thead>
<tr>
<th>ClId</th>
<th>Cust_Name</th>
<th>Gender</th>
<th>TId</th>
<th>Fee</th>
<th>Membership</th>
</tr>
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<tbody>
<tr>
<td>C1</td>
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<td>F</td>
<td>G104</td>
<td>6000</td>
<td>6</td>
</tr>
</tbody>
</table>

Answer the questions based on above tables.

Question: Choose correct SQL query to display total customers under each trainer in the Gym.

A: Select TId, TName, Count(*) from Customer Where Trainer.TId = Customer.TId;

B: Select TName, count(*) from Customer group by TId;

C: Select TId, count(*) from Customer group by TId;
ABC fitness centre has computerized their Gym by keeping details of their Trainees in Trainer table and clients in Customer table which are as follows:

**Table: Trainer**

<table>
<thead>
<tr>
<th>TId</th>
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<th>Dt_Appoint</th>
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**Table: Customer**

<table>
<thead>
<tr>
<th>CId</th>
<th>Cust_Name</th>
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<th>Fee</th>
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<td>Deljct</td>
<td>F</td>
<td>G104</td>
<td>6000</td>
<td>6</td>
</tr>
</tbody>
</table>
Question:
Choose correct SQL query to display the names of all trainees with their date of appointment in descending order, who are taking core activity.

A: Select TName, Dt_Appoint from Trainer
    Order by Dt_Appoint desc
    Where Activity=“Core”;

B: Select TName, Dt_Appoint from Trainer
    Where Activity=“Core”
    Order by Dt_Appoint desc;

C: Select TName, Dt_Appoint from Trainer
    Order by Dt_Appoint desc
    Having Activity=“Core”;

D: Select TName, Dt_Appoint from Trainer
    Where Activity=“Core”
    Order by desc Dt_Appoint;

---

ABC fitness centre has computerized their Gym by keeping details of their Trainees in Trainer table and clients in Customer table which are as follows:

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<table>
<thead>
<tr>
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<tr>
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<td>Asad</td>
<td>M</td>
<td>G102</td>
<td>12000</td>
<td>15</td>
</tr>
</tbody>
</table>
Choose correct SQL query to update the membership of all the customers, under Trainer with code G101 and G102, to 12 months.

A: Update Customer
   Set Membership=12
   Where TId="G101" or TId="G102";

B: Alter table Customer
   Add Membership=12
   Where TId="G101" or TId="G102";

C: Update Customer
   Set Membership=12
   Where TId="G101" and TId="G102";

D: Update Customer
   Add Membership=12
   Where TId="G101" or TId="G102";

ABC fitness centre has computerized their Gym by keeping details of their Trainees in Trainer table and clients in Customer table which are as follows:

Table: Trainer

<table>
<thead>
<tr>
<th>TId</th>
<th>TName</th>
<th>Activity</th>
<th>Salary</th>
<th>Dt_Appoint</th>
</tr>
</thead>
<tbody>
<tr>
<td>G101</td>
<td>Manish</td>
<td>Kick Boxing</td>
<td>18000</td>
<td>2020-10-12</td>
</tr>
<tr>
<td>G102</td>
<td>Sachin</td>
<td>Core</td>
<td>22000</td>
<td>2021-06-09</td>
</tr>
<tr>
<td>G103</td>
<td>Aahan</td>
<td>Core</td>
<td>25000</td>
<td>2020-05-30</td>
</tr>
<tr>
<td>G104</td>
<td>Aparna</td>
<td>Zumba</td>
<td>15000</td>
<td>2021-11-12</td>
</tr>
<tr>
<td>G105</td>
<td>Nitin</td>
<td>Yoga</td>
<td>20000</td>
<td>2022-02-15</td>
</tr>
</tbody>
</table>

Table: Customer
Answer the questions based on above tables.

Choose the correct SQL query to display a report showing Trainer name, Salary, Customer name and Fee for all Trainers having salary between 20000 to 25000.

A. Select TName, Salary, Cust_Name, Fee
   From Customer C, Trainer T
   Where T.Tld=C.Tld and Salary >=20000 and Salary<=25000;
B. Select TName, Salary, Cust_Name, Fee
   From Customer, Trainer
   Where Customer.Tld=Trainer.Tld and Salary between 20000 and 25000;
C. Select TName, Salary, C_Name, Fee
   From Customer C, Trainer T
   Where C.Tld= T.Tld and Salary between 20000 and 25000;
D. Select TName, Salary, C_Name, Fee
   From Customer, Trainer
   Where C.Tld= T.Tld and 20000<=Salary<=25000;
E. Select TName, Salary, Cust_Name, Fee
   From Customer C, Trainer T
   Where T.Tld= C.Tld and Salary between 20000 and 25000;

Choose the most appropriate answer from the options given below:

A: A, B and C only
B: A, D and E only
C: B, C and E only
D: A, B and E only

---

**Section:** COMPUTER SCIENCE

**Item No:** 32

**Question ID:** 7130132

**Question Type:** MCQ

**Question:** _______ type is returned by the readlines() method of the file object.
### Question 33

**Question:** What is the length of MAC Address in bits?

<table>
<thead>
<tr>
<th>A:</th>
<th>B:</th>
<th>C:</th>
<th>D:</th>
</tr>
</thead>
<tbody>
<tr>
<td>48 bits</td>
<td>64 bits</td>
<td>24 bits</td>
<td>72 bits</td>
</tr>
</tbody>
</table>

### Question 34

**Question:** Given below are two statements: one is labelled as Assertion A and other is labelled as Reason R.

**Assertion A:** Wi-Fi gives users the flexibility to move around within the network area while being connected to the network.

**Reason R:** Wireless network connects communicating devices to each other without any wire.

In the light of the above statements, choose the most appropriate answer from the options given below:

<table>
<thead>
<tr>
<th>A:</th>
<th>B:</th>
<th>C:</th>
<th>D:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Both A and R are correct and R is the correct explanation of A</td>
<td>Both A and R are correct and R is not the correct explanation of A</td>
<td>A is correct but R is not correct</td>
<td>A is not correct but R is correct</td>
</tr>
</tbody>
</table>

### Question 35

**Question:** Choose the Network Topology that requires a central controller.

<table>
<thead>
<tr>
<th>A:</th>
<th>B:</th>
<th>C:</th>
<th>D:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bus</td>
<td>Star</td>
<td>Mesh</td>
<td>Tree</td>
</tr>
</tbody>
</table>

### Question 36

**Question:** (question text not provided)
Question:

is world wide interoperability for microwave access, uses a larger spectrum to deliver connections to various devices.

A: Wi-Fi
B: Wireless MAN
C: WiMax
D: Microwave

Section: COMPUTER SCIENCE
Item No: 37
Question ID: 7130137
Question Type: MCQ

Question:

Examples of Guided media are ________.

A. Radio Waves
B. Optical-fiber
C. Micro waves
D. Twisted pair
E. Coaxial cable

Choose the correct answer from the options given below:

A: A, B, and D only
B: B, C and D only
C: B, D and E only
D: B, C and E only

Section: COMPUTER SCIENCE
Item No: 38
Question ID: 7130138
Question Type: MCQ

Question:

The mid point of the sorted list is important in _______.

A: Binary search
B: Linear search
C: Insertion sort
D: Sequential search

Section: COMPUTER SCIENCE
Item No: 39
Question ID: 7130139
Question Type: MCQ

Question:

Consider the following function for insertion_sort

```python
def insertion_sort(list3):
    n=len(list3)
    for i in _______: # [statement-1]
        temp=________ #[statement-2]
        j-=1
        while j >= 0 and _______: #[statement-3]
            list3[j+1]=list3[j]
            j = _______ # [statement-4]
        _______ = temp #[statement-5]
```

Question:
Given the following options for the statements.

A. \text{temp < list3[j]}
B. \text{list3[j]}
C. \text{list3[j+1]}
D. \text{range(n)}
E. \text{j-1}

Choose the correct sequence of statement.

A: D\rightarrow B\rightarrow E\rightarrow A\rightarrow C
B: D\rightarrow B\rightarrow A\rightarrow E\rightarrow C
C: B\rightarrow D\rightarrow A\rightarrow E\rightarrow C
D: B\rightarrow A\rightarrow D\rightarrow E\rightarrow C

Question: Which of the following is (are) attribute(s) of file object?

A. closed
B. mode
C. next
D. name
E. tell

Choose the correct answer from the options given below:

A: B and D only
B: D only
C: B, D and E only
D: A, B and D only

Case study based question
An Educational Institute in Delhi make use of DBMS to store details of students. The institute maintains a database named ‘school-record’ under which there are two tables.
1. Student table: maintains general details of every student enrolled in the school
2. Stulibrary Table: To store the details of issued books.
* BookID is the unique identification number of each book.
* Minimum issue duration of a book is one day.

<table>
<thead>
<tr>
<th>Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field</td>
</tr>
<tr>
<td>StuID</td>
</tr>
<tr>
<td>StuName</td>
</tr>
</tbody>
</table>
Question:
Identify the SQL query which displays the data of table Stulibrary in ascending order of student ID.

A: Select * from Stulibrary order by BookID;
B: Select * from Stulibrary order by StuID ascending;
C: Select * from Stulibrary order by StuID Asc;
D: Select * from Stulibrary order by StuID DESC;

Case study based question
An Educational Institute in Delhi make use of DBMS to store details of students. The institute maintains a database named 'school-record' under which there are two tables.
1. Student table: maintains general details of every student enrolled in the school
2. Stulibrary Table: To store the details of issued books.
* BookID is the unique identification number of each book.
*Minimum issue duration of a book is one day.
The primary key of Stulibrary table is/are:

A: BookID
B: BookID, StuID
C: BookID, Issued_date
D: Issued_date
Which of the following SQL query will fetch ID of those issued books which have not been returned?

A: Select BookID from Stulibrary where BookID is NULL;
B: Select BookID from Stulibrary where StuID is NULL;
C: Select BookID from Stulibrary where Issued_date is NULL;
D: Select BookID from Stulibrary where Return_date is NULL;

An Educational Institute in Delhi make use of DBMS to store details of students. The institute maintains a database named ‘school-record’ under which there are two tables.

1. Student table: maintains general details of every student enrolled in the school
2. Stulibrary Table: To store the details of issued books.

*BookID* is the unique identification number of each book.

*Minimum issue duration of a book is one day.*
The alternate key for Student table will be________

A: StuName
B: StuContact
C: StuAadhar
D: StuClass
Which of the following SQL queries will display dates on which number of issued books is greater than 5?

A: Select Issued_date from Stulibrary group by Issued_date where count(*) > 5;
B: Select Issued_date from Stulibrary group by Return_date having count(*) > 5;
C: Select Issued_date from Stulibrary group by Issued_date having count(*) > 5;
D: Select Issued_date from Stulibrary group by Return_date where count(*) > 5;

Identify primary key in the given table student:

<table>
<thead>
<tr>
<th>Name</th>
<th>AdmNo</th>
<th>Class</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aashi</td>
<td>101</td>
<td>X</td>
<td>A</td>
</tr>
</tbody>
</table>
If a table has 5 tuples and 7 attributes, then what will be the degree and cardinality of the table?

A: Degree= 7, Cardinality=5
B: Degree= 7, Cardinality=7
C: Degree= 5, Cardinality=5
D: Degree= 5, Cardinality=7

Find the output:

```python
s = "Cueit\#\#2022"
f = open("new.Txt","w+")
f.write(s)
f.seek(9)
c = f.read(9)
for i in c:
    if i.isupper():
        print(i.lower() , end="\#")
    elif i.islower():
        print(i.upper() , end="\#")
    elif i.isdigit():
        print(int(i) + 1 , end="\#")
    else:
        print("$" , end="\#")
f.close()
```

A: c\#U\#e\#T\#2\#0\#2\#2#
B: C\#u\#E\#3\#1\#3\#3#
C: c\#U\#e\#T\#$3\#1\#3\#3#
D: C\#u\#e\#t\#2\#0\#2\#2#
Consider the table given below.

<table>
<thead>
<tr>
<th>SNo</th>
<th>Name</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mehek</td>
<td>8A</td>
</tr>
<tr>
<td>2</td>
<td>Mahira</td>
<td>6A</td>
</tr>
<tr>
<td>3</td>
<td>Lavanya</td>
<td>7A</td>
</tr>
<tr>
<td>4</td>
<td>Sanjay</td>
<td>7A</td>
</tr>
<tr>
<td>5</td>
<td>Abhay</td>
<td>8A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SNo</th>
<th>Name</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Aastha</td>
<td>7A</td>
</tr>
<tr>
<td>2</td>
<td>Mahira</td>
<td>6A</td>
</tr>
<tr>
<td>3</td>
<td>Mohit</td>
<td>7B</td>
</tr>
<tr>
<td>4</td>
<td>Sanjay</td>
<td>7A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SNo</th>
<th>Name</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mehek</td>
<td>8A</td>
</tr>
<tr>
<td>3</td>
<td>Lavanya</td>
<td>7A</td>
</tr>
<tr>
<td>5</td>
<td>Abhay</td>
<td>8</td>
</tr>
</tbody>
</table>

Identify the operation applied to the given tables to get the given output.

A: TableA X TableB
B: TableA U TableB
C: TableA - TableB
D: TableA ∩ TableB
Section: COMPUTER SCIENCE
Item No: 50
Question ID: 7130150
Question Type: MCQ

Question:
Consider the given text file ‘pledge.txt’

India is my country.
All Indian are my brothers and sisters

```python
f=open('pledge.txt', 'r') #Statement 1
line = f.readlines() #Statement 2
print(len(line)) #Statement 3
f.close() #Statement 4
```

Identify the correct output, will be given by statement 3.

A: 62
B: 60
C: 1
D: 2

Section: INFORMATICS PRACTICES
Item No: 51
Question ID: 7130151
Question Type: MCQ

Question:
Write the output of the given statement on the basis of given Pandas series; ‘s’.

```python
s = Series([2, 4, 6, 8, 10, 12], index=['a', 'b', 'c', 'd', 'e', 'f'])
print(s[1:3])
```

A: a 2
   b 4
B: a 2
   b 4
c: a 2
   b 4
d: d 8
   e 10
   f 12

Section: INFORMATICS PRACTICES
Item No: 52
Question ID: 7130152
Question Type: MCQ

Question:
Rajesh read the given csv file in a dataframe and he is not aware of how to skip the column heading while reading. Choose the correct argument required to solve this problem:

<table>
<thead>
<tr>
<th>CarNo</th>
<th>Cartype</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>9217</td>
<td>3</td>
<td>330000</td>
</tr>
</tbody>
</table>

A: header
B: [1]
C: index
D: None
**Section:** INFORMATICS PRACTICES

**Item No:** 53

**Question ID:** 7130153

**Question Type:** MCQ

**Question:** Which package/software is most suitable to create the CSV file?

A: Any word processing
B: Any spreadsheet package
C: Any Presentation package
D: Any Database software

**Section:** INFORMATICS PRACTICES

**Item No:** 54

**Question ID:** 7130154

**Question Type:** MCQ

Consider a dataframe `df`, which statement(s) is(are) incorrect w.r.t. df operations?

A. `df['x']` = [10,20,30], will add a new column 'x' to dataframe df.
B. `df.loc[ 'x' ]` = [30,40,70], will add a new column 'x' to dataframe df.
C. `df[ 'x' ]` = [10,20,30], will add a new row to the dataframe df.
D. `df.loc[ 'x' ]` = [30,40,70], will always add a new row to the dataframe df.
E. `df.drop( 'x', axis=0 )`, will delete the row with label 'x' from the dataframe df.

Choose the correct answer from the options given below:

A: B, C and D only
B: A and E only
C: B and E only
D: C only

**Section:** INFORMATICS PRACTICES

**Item No:** 55

**Question ID:** 7130155

**Question Type:** MCQ

Consider the table given below:

Table: STUDENT

<table>
<thead>
<tr>
<th>ADM</th>
<th>NAME</th>
<th>CLASS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>2317</td>
<td>sedat</td>
</tr>
<tr>
<td>1</td>
<td>1543</td>
<td>luxury</td>
</tr>
<tr>
<td>2</td>
<td>2054</td>
<td>hatch back</td>
</tr>
<tr>
<td>3</td>
<td>1669</td>
<td>4x4</td>
</tr>
</tbody>
</table>

300000
400000
1000000
700000
Based on the above table, which command will give the following result:

<table>
<thead>
<tr>
<th>CLASS</th>
<th>No of students</th>
</tr>
</thead>
<tbody>
<tr>
<td>12A</td>
<td>3</td>
</tr>
<tr>
<td>12C</td>
<td>2</td>
</tr>
</tbody>
</table>

A: Select CLASS, Count(*) From STUDENT Group by CLASS;
B: Select CLASS, Count(*) 'No of students' From STUDENT GROUP by CLASS;
C: SELECT CLASS,COUNT(No of students) FROM STUDENT Group By CLASS Having count(*)>1;
D: SELECT CLASS,COUNT(*) 'No of students' FROM STUDENT Group By CLASS Having count(*)>1;

Consider the table given below:

Table: STUDENT

<table>
<thead>
<tr>
<th>ADMNO</th>
<th>NAME</th>
<th>CLASS</th>
<th>SCORE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A001</td>
<td>Amit</td>
<td>12A</td>
<td>90</td>
</tr>
<tr>
<td>A002</td>
<td>Amit</td>
<td>12B</td>
<td>91</td>
</tr>
<tr>
<td>A003</td>
<td>Bhavana</td>
<td>12A</td>
<td>90</td>
</tr>
</tbody>
</table>
Which of the following command will display all the records according to their names in descending order and their scores in descending order?

A: `SELECT * FROM STUDENT ORDER BY NAME, SCORE DESC;`
B: `SELECT * FROM STUDENT ORDER BY NAME AND SCORE DESC;`
C: `SELECT * FROM STUDENT ORDER BY NAME DESC, SCORE DESC;`
D: `SELECT * FROM STUDENT ORDER BY NAME DESC AND SCORE DESC;`

Question:
Given are the two statements: one is labelled as Assertion A and the other is labelled as Reason R.

**Assertion A:** We need to install matplotlib for creating graphs using the command:
```
pip install matplotlib
```

**Reason R:** For plotting using matplotlib, we need to import pyplot module using:
```
import matplotlib.pyplot as plt
```

In the light of the above statements, choose the correct answer from the options given below:

A: Both A and R are true and R is the correct explanation of A
B: Both A and R are true but R is NOT the correct explanation of A
C: A is true but R is false
D: A is false but R is true

Match List I with List II

<table>
<thead>
<tr>
<th>List I</th>
<th>List II</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. E-waste</td>
<td>I. Minimize the purchase according to need only</td>
</tr>
<tr>
<td>B. Reduce</td>
<td>II. Devices that are no longer in use</td>
</tr>
<tr>
<td>C. Reuse</td>
<td>III. Conversion of devices into something to use again and again</td>
</tr>
<tr>
<td>D. Recycle</td>
<td>IV. Process of re-using the waste after modification.</td>
</tr>
</tbody>
</table>

Choose the correct answer from the options given below:

A: A-III, B-II, C-I, D-IV
B: A-II, B-I, C-III, D-IV
C: A-II, B-I, C-IV, D-III
59. **Question:** What was the first Web browser developed by the National Centre for Supercomputing Application (NCSA)?

- A: Mozilla Firefox
- B: Opera
- C: Mosaic
- D: Google Chrome

60. **Question:** Ms. Bhavika wants to change the index of the dataframe and the output for the same is given below:

<table>
<thead>
<tr>
<th>Name</th>
<th>Stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>student1</td>
<td>ananya humanities</td>
</tr>
<tr>
<td>student2</td>
<td>bhavya humanities</td>
</tr>
</tbody>
</table>

Identify the correct statement to change the index.

- A: d1.index[student1, student2]
- B: d1.index = [student1, student2]
- C: d1.index[ ] = [student1, student2]
- D: d1.index( ) = [student1, student2]

61. **Question:** In data science for data analysis, which of the python library are more popular?

- A: Swift
- B: Django
- C: Open office
- D: Pandas

62. **Question:** Which malware is used to generate revenue for its developer?

- A: Spyware
- B: Adware
- C: Ransomware
- D: Trojan
### Question 63

**Question ID:** 7130163  
**Question Type:** MCQ

A hacker with an aim to bring about political and social change.

- **A:** White hats
- **B:** Hacktivist
- **C:** Black hats
- **D:** Grey hats

### Question 64

**Question ID:** 7130164  
**Question Type:** MCQ

Find output for the following:

```
SELECT substr(’Every cloud has a silver lining’, 7, 5);
```

- **A:** cloud
- **B:** cloud has a silver lining
- **C:** Every c
- **D:** very

### Question 65

**Question ID:** 7130165  
**Question Type:** MCQ

Find the output for following:

```python
import numpy as np
pencil= np.array([10,20,30])
eraser= np.array([40,50,70])
pen= np.array([11,16,17,18])
import pandas as pd
Stationary= pd.DataFrame([pencil, pen, eraser], columns=[‘AB’, ‘CD’, ‘EF’, ‘GH’])
print(Stationary)
```

<table>
<thead>
<tr>
<th></th>
<th>AB</th>
<th>CD</th>
<th>EF</th>
<th>GH</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>10</td>
<td>20</td>
<td>30</td>
<td>NaN</td>
</tr>
<tr>
<td>1</td>
<td>11</td>
<td>16</td>
<td>17</td>
<td>18</td>
</tr>
<tr>
<td>2</td>
<td>40</td>
<td>50</td>
<td>70</td>
<td>NaN</td>
</tr>
</tbody>
</table>

- **A:**

<table>
<thead>
<tr>
<th></th>
<th>AB</th>
<th>CD</th>
<th>EF</th>
<th>GH</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>10</td>
<td>20</td>
<td>30</td>
<td>No value</td>
</tr>
<tr>
<td>1</td>
<td>11</td>
<td>16</td>
<td>17</td>
<td>18</td>
</tr>
<tr>
<td>2</td>
<td>40</td>
<td>50</td>
<td>70</td>
<td>No value</td>
</tr>
</tbody>
</table>

- **B:**

<table>
<thead>
<tr>
<th></th>
<th>AB</th>
<th>CD</th>
<th>EF</th>
<th>GH</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>10</td>
<td>20</td>
<td>30</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>11</td>
<td>16</td>
<td>17</td>
<td>18</td>
</tr>
<tr>
<td>2</td>
<td>40</td>
<td>50</td>
<td>70</td>
<td>0</td>
</tr>
</tbody>
</table>

- **C:**

<table>
<thead>
<tr>
<th></th>
<th>AB</th>
<th>CD</th>
<th>EF</th>
<th>GH</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>10</td>
<td>20</td>
<td>30</td>
<td>NaN</td>
</tr>
<tr>
<td>1</td>
<td>11</td>
<td>16</td>
<td>17</td>
<td>18</td>
</tr>
<tr>
<td>2</td>
<td>40</td>
<td>50</td>
<td>70</td>
<td>NaN</td>
</tr>
</tbody>
</table>
Section: INFORMATICS PRACTICES

Item No: 66

Question ID: 7130166

Question Type: MCQ

Question: Autopct is used in pie plot to display the _____ of that part as a label.

A: Value  
B: Legend  
C: Percentage  
D: Data

---

Section: INFORMATICS PRACTICES

Item No: 67

Question ID: 7130167

Question Type: MCQ

Question: Consider the following code:
```python
import pandas as pd
import matplotlib.pyplot as plt
nutrition=['Omega3', 'Vitamin B12', 'Calcium', 'Vitamin D3']
Nvalues= [40,50,60,70]
colval=['red', 'blue', 'green', 'yellow']
plt.pie(Nvalues, labels=nutrition, colors=colval)
plt._____ ("Nutritional Value")  #Statement1
plt._____ ("Nutritional Value")  #Statement2
```

A: title, show()  
B: show(), title  
C: pie, display()  
D: title, display()

---

Section: INFORMATICS PRACTICES

Item No: 68

Question: Choose the appropriate option to complete Statement1 and Statement2.

A: title, show()  
B: show(), title  
C: pie, display()  
D: title, display()
Consider following stock value data

<table>
<thead>
<tr>
<th></th>
<th>March</th>
<th>April</th>
<th>May</th>
<th>June</th>
<th>July</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITC</td>
<td>150</td>
<td>156</td>
<td>170</td>
<td>180</td>
<td>184</td>
</tr>
<tr>
<td>KPL</td>
<td>200</td>
<td>222</td>
<td>224</td>
<td>251</td>
<td>255</td>
</tr>
<tr>
<td>WPM</td>
<td>400</td>
<td>411</td>
<td>412</td>
<td>411</td>
<td>413</td>
</tr>
<tr>
<td>SAM</td>
<td>312</td>
<td>312</td>
<td>311</td>
<td>333</td>
<td>335</td>
</tr>
</tbody>
</table>

Find output for following:

```python
Stockframe.loc[['KPL', 'WPM']]
```

<table>
<thead>
<tr>
<th></th>
<th>March</th>
<th>April</th>
<th>May</th>
<th>June</th>
<th>July</th>
</tr>
</thead>
<tbody>
<tr>
<td>KPL</td>
<td>200</td>
<td>222</td>
<td>224</td>
<td>251</td>
<td>255</td>
</tr>
<tr>
<td>WPM</td>
<td>400</td>
<td>411</td>
<td>412</td>
<td>411</td>
<td>413</td>
</tr>
<tr>
<td>SAM</td>
<td>312</td>
<td>312</td>
<td>311</td>
<td>333</td>
<td>335</td>
</tr>
</tbody>
</table>

A: KPL 200 222 224 251 255

B: KPL 200 222 224 251 255

C: KPL 200 222

D: KPL True False True True True
Section: INFORMATICS PRACTICES
Item No: 69
Question ID: 7130169
Question Type: MCQ
Question: Bad posture, backaches, neck and shoulder pain can be prevented by arranging the work space as recommended by _____
A: doctor
B: therapist
C: ergonomists
D: Psychologist

Section: INFORMATIC PRACTICES
Item No: 72
Question ID: 7130172
Question Type: MCQ
Question: Rohan wants to create the pandas series with first 5 even numbers with index as
A: 1, 2, 3, 4, 5
B: 0, 2, 4, 6, 8
C: 2, 4, 6, 8, 10
D: 0, 2, 4, 6, 8
Question:
A: \text{pd.Series(np.arange(2,12,2), index=['}a','b','c','d','e'])}
B: \text{pd.Series(np.arange(2,12,2), index=['}a','b','c','d','e'])}
C: \text{pd.Series(np.arange(2,10,2), index=['}a','b','c','d','e'])}
D: \text{pd.Series(np.arange(2,12,2), index=['}a','b','c','d','e'])}

Question:
Given a dataframe \text{df} with columns \text{name}, \text{stream} and \text{Roll_no}.
Prabhat wants to print the details of 'Bhavya' along with stream. Identify the correct statement.

A: \text{print(df[['name','stream']][df['name']=='Bhavya'])}
B: \text{print(df[['name','stream']][df['name']==''Bhavya']])}
C: \text{print(df['name']=='Bhavya')}
D: \text{print(df[['name','stream']][df['name']=='Bhavya'])}

Question:
Given the output for the following query: select \text{monthname("2003-11-10")};
A: \text{October}
B: \text{November}
C: \text{10}
D: \text{11}

Question:
Assume the given tables \text{Dance} and \text{Music}.

<table>
<thead>
<tr>
<th>SNo</th>
<th>Name</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Aastha</td>
<td>7A</td>
</tr>
<tr>
<td>2</td>
<td>Mahira</td>
<td>6A</td>
</tr>
<tr>
<td>3</td>
<td>Mohit</td>
<td>7B</td>
</tr>
<tr>
<td>4</td>
<td>Sanjay</td>
<td>7A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SNo</th>
<th>Name</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mehek</td>
<td>8A</td>
</tr>
<tr>
<td>2</td>
<td>Mahira</td>
<td>6A</td>
</tr>
<tr>
<td>3</td>
<td>Lavanya</td>
<td>7A</td>
</tr>
<tr>
<td>4</td>
<td>Sanjay</td>
<td>7A</td>
</tr>
<tr>
<td>5</td>
<td>Abhay</td>
<td>8A</td>
</tr>
</tbody>
</table>

Question:
Section: INFORMATICS PRACTICES
Item No: 76
Question ID: 7130176
Question Type: MCQ

Question:
Which operation should be applied to the table to get the following output?

<table>
<thead>
<tr>
<th>SNo</th>
<th>Name</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Aasha</td>
<td>7A</td>
</tr>
<tr>
<td>2</td>
<td>Mahira</td>
<td>6A</td>
</tr>
<tr>
<td>3</td>
<td>Mohit</td>
<td>7B</td>
</tr>
<tr>
<td>4</td>
<td>Sanjay</td>
<td>7A</td>
</tr>
<tr>
<td>1</td>
<td>Mehek</td>
<td>8A</td>
</tr>
<tr>
<td>3</td>
<td>Lavanya</td>
<td>7A</td>
</tr>
<tr>
<td>5</td>
<td>Abhay</td>
<td>8A</td>
</tr>
</tbody>
</table>

A: U
B: ∩
C: -
D: X

Section: INFORMATICS PRACTICES
Item No: 77
Question ID: 7130177
Question Type: MCQ

Question:
Given below are two statements:
Statement I: All switches are hubs.
Statement II: All hubs are switches.
In the light of the above statements, choose the most appropriate answer from the options given below

A: Both Statement I and Statement II are correct.
B: Both Statement I and Statement II are incorrect.
C: Statement I is correct but Statement II is incorrect.
D: Statement I is incorrect but Statement II is correct.

Section: INFORMATICS PRACTICES
Item No: 78
Question ID: 7130178
Question Type: MCQ

Question:
The hacker takes advantage of congested and chaotic network environment in to sneak into system undetected.

A: Asymmetric routing.
B: Buffer overflow attacks.
C: Traffic flooding.
D: Denial of service.

Section: INFORMATICS PRACTICES
Item No: 79
Question ID: 7130179
Question Type: MCQ

Question:
'sqlalchemy is a library that is used to interact with MySQL database by providing required credentials'
Which of the following statement(s) is/are correct?

A. “pip install sqlalchemy” command is used to install sqlalchemy
B. create_engine() enables the connection to be established between database

A. B
B. A
C. A and B
D. None of the above
**Question:**

D. `create_engine()` enables the connection to be established between database and pandas.
C. `create_engine()` does not return any object.
B. `create_engine()` takes only database name as the parameter for connecting with pandas.
A. `create_engine()` is known as connection string.

Choose the correct answer from the options given below:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>A, B and C only.</td>
</tr>
<tr>
<td>B</td>
<td>A, B and E only</td>
</tr>
<tr>
<td>C</td>
<td>B, C and D only.</td>
</tr>
<tr>
<td>D</td>
<td>A, C and E only</td>
</tr>
</tbody>
</table>

**Question:**

**Match List I with List II**

<table>
<thead>
<tr>
<th>List I</th>
<th>List II</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. DataFrame shape</td>
<td>I. To display names of columns</td>
</tr>
<tr>
<td>B. DataFrame T</td>
<td>II. To display the labels</td>
</tr>
<tr>
<td>C. DataFrame index</td>
<td>III. To display dimensions of data</td>
</tr>
<tr>
<td>D. DataFrame.columns</td>
<td>IV. To interchange columns and rows</td>
</tr>
</tbody>
</table>

Choose the correct answer from the options given below:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>A-III , B-II , C-I , D-IV</td>
</tr>
<tr>
<td>B</td>
<td>A-IV , B-I , C-II , D-III</td>
</tr>
<tr>
<td>C</td>
<td>A-III , B-IV , C-II , D-I</td>
</tr>
<tr>
<td>D</td>
<td>A-II , B-I , C-III , D-IV</td>
</tr>
</tbody>
</table>

**Question:**

Consider the following series:

<table>
<thead>
<tr>
<th>sera</th>
<th>serb</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>x</td>
</tr>
<tr>
<td>b</td>
<td>y</td>
</tr>
</tbody>
</table>

Choose the correct value of sera after execution of the following statement:

sera.add(serb, fill_value=0)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>a 1</td>
</tr>
<tr>
<td></td>
<td>b 2</td>
</tr>
<tr>
<td></td>
<td>x 10</td>
</tr>
<tr>
<td></td>
<td>y 20</td>
</tr>
</tbody>
</table>
Section: INFORMATICS PRACTICES
Item No: 81
Question ID: 7130181
Question Type: MCQ
Question:
A service that allows us to put a website or a web page onto the internet and make it a part of the World Wide Web.
A: Web server
B: Web hosting
C: Web site
D: Web upload

Section: INFORMATICS PRACTICES
Item No: 82
Question ID: 7130182
Question Type: MCQ
Question: Identify the incorrect pair related to etiquettes in digital society.
A: Net etiquettes- Be Ethical, Be Respectful, Be Responsible.
B: Communication etiquettes- Be Precise, Be polite, Be credible
C: Digital etiquettes- Be Kind, Be considerate.
D: Social media etiquettes- Be Secure, Be Reliable.

Section: INFORMATICS PRACTICES
Item No: 83
Question ID: 7130183
Question Type: MCQ
Question: An __________ is a person who deliberately sows discord on the internet by starting quarrels or upsetting people, by posting inflammatory or off topic messages in an online community, just for amusement.
A: Internet addict
B: Internet troll
C: Nefizen
D: Digital citizen
### Question 84
**Question Type:** MCQ
**Question:** Writing emails or responses or posts we make on different websites or mobile Apps is a part of ____________.

A: Digital citizen.
B: Passive Digital Footprint.
C: Active Digital Footprint.
D: Digital Social Circle.

### Question 85
**Question Type:** MCQ
**Question:** Assume `df` is a dataframe.
_____ is used to find the average of squared differences from the mean.
_____ is calculated as the square root of the variance.

A: `df.var()`, `df.std()`
B: `df.mean()`, `df.mode()`
C: `df.StandardDeviation()`, `df.variance()`
D: `df.std()`, `df.var()`