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Paper:	COMPUTER SCIENCE/INFORMATICS PRACTICES
Set Name:	SET 08
Exam Date:	30 Aug 2022
Exam Shift:	1
Langauge:	English

Section:	COMPULSORY
Item No:	1
Question ID:	**713011**
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

Section:	COMPULSORY
Item No:	2
Question ID:	**713012**
Question Type:	MCQ
Question:	The British scientist who invented world wide web in 1990 is ____
A:	Allen Turing
B:	Claude Shanon
C:	Tim Berners Lee
D:	Herman Hollerith

Section:	COMPULSORY
Item No:	3
Question ID:	**713013**
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

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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?
A:	#
B:	$
C:	*
D:	%

Section:	COMPULSORY
Item No:	5
Question ID:	**713015**
Question Type:	MCQ
Question:	Match List I with List II. **List I** A. Data redundancy B. Data inconsistency C. Data Isolation D. Data dependency **List II** I. Updating the structure of a data file requires modification in all the application programs accessing the file. II. Duplication of data at different places(files) III. Separation of resource or data modification made by different transactions. IV. Mismatch of data, maintained at different places. Choose the correct answer from the options given below:
A:	A-IV, B-II, C-I, D-III
B:	A-II, B-IV, C-III, D-I
C:	A-II, B-IV, C-I, D-III
D:	A-III, B-I, C-II, D-IV

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>;

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	Choose the correct answer from the options given below:
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

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

Section:	COMPULSORY
Item No:	9
Question ID:	**713019**
Question Type:	MCQ
Question:	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:	10
Question ID:	**7130110**
Question Type:	MCQ
Question:	In file mode ___, the file offset position is end of the file.

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A:	r
B:	w
C:	w+
D:	a

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
	Match List I with List II **List I** **List II**

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Question:	A. Browser B. Multiport modem C. Protocol D. BCC I. SMTP II. Google Chrome III. Blind carbon copy IV. Hub 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.

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A:	Bubble sort
B:	Insertion sort
C:	Selection sort
D:	Adjacent sort

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. Queue 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 Fl using
A:	Fl.readlines( )
B:	Fl.readline( )
C:	Fl.readnext( )
D:	Fl.read( )

Section:	COMPUTER SCIENCE
Item No:	21

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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+/*

Section:	COMPUTER SCIENCE
Item No:	22
Question ID:	7130122
Question Type:	MCQ
Question:	The file offset position of a file opened in <r> mode is_____.
A:	End of the file
B:	Begining of the file
C:	Any where in the file
D:	One byte before the end of the file

Section:	COMPUTER SCIENCE
Item No:	23
Question ID:	7130123
Question Type:	MCQ

Question:	Consider the following python code:
	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

Section:	COMPUTER SCIENCE
Item No:	24
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

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Section:	COMPUTER SCIENCE
Item No:	25
Question ID:	**7130125**
Question Type:	MCQ
Question:	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 formatted way. D. Data inconsistency is reduced to 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

Section:	COMPUTER SCIENCE
Item No:	26
Question ID:	**7130126**
Question Type:	MCQ
Question:	The like operator makes use of two wild card 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

Section:	COMPUTER SCIENCE
Item No:	27
Question ID:	**7130127**
Question Type:	MCQ
	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

TId	TName	Activity	Salary	Dt_Appoint
G101	Manish	Kick Boxing	18000	2020-10-12

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G102	Sachin	Core	22000	2021-06-09
G103	Aahan	Core	25000	2020-05-30
G104	Aparna	Zumba	15000	2021-11-12
G105	Nitin	Yoga	20000	2022-02-15

Passage:

Table: Customer

CId	Cust_Name	Gender	TId	Fee	Membership
C1	Sabina	F	G101	10000	12
C2	Rohit	M	G101	9000	10
C3	Asad	M	G102	12000	15
C4	John	M	G103	6000	6
C5	Aastha	F	G104	8000	8
C6	Neha	F	G102	9000	10
C7	Zubain	M	G102	10000	12
C8	Deljeet	F	G104	6000	6

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 CId, 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;

Section:	COMPUTER SCIENCE
Item No:	28
Question ID:	7130128
Question Type:	MCQ

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Passage:

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

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

Table: Customer

CId	Cust_Name	Gender	TId	Fee	Membership
C1	Sabina	F	G101	10000	12
C2	Rohit	M	G101	9000	10
C3	Asad	M	G102	12000	15
C4	John	M	G103	6000	6
C5	Aastha	F	G104	8000	8
C6	Neha	F	G102	9000	10
C7	Zubain	M	G102	10000	12
C8	Deljeet	F	G104	6000	6

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;

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D:	Select TId, count(CId) from Customer Where Trainer.TId= Customer.TId;

Section:	COMPUTER SCIENCE
Item No:	29
Question ID:	7130129
Question Type:	MCQ

Passage:

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

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

Table: Customer

CId	Cust_Name	Gender	TId	Fee	Membership
C1	Sabina	F	G101	10000	12
C2	Rohit	M	G101	9000	10
C3	Asad	M	G102	12000	15
C4	John	M	G103	6000	6
C5	Aastha	F	G104	8000	8
C6	Neha	F	G102	9000	10
C7	Zubain	M	G102	10000	12
C8	Deljeet	F	G104	6000	6

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	Answer the questions based on above tables.
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;

Section:	COMPUTER SCIENCE
Item No:	30
Question ID:	**7130130**
Question Type:	MCQ
Passage:	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

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

Table: Customer

CId	Cust_Name	Gender	TId	Fee	Membership
C1	Sabina	F	G101	10000	12
C2	Rohit	M	G101	9000	10
C3	Asad	M	G102	12000	15

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C4	John	M	G103	6000	6
C5	Aastha	F	G104	8000	8
C6	Neha	F	G102	9000	10
C7	Zubain	M	G102	10000	12
C8	Deljeet	F	G104	6000	6

Answer the questions based on above tables.

Question:	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";

Section:	COMPUTER SCIENCE
Item No:	31
Question ID:	**7130131**
Question Type:	MCQ

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

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

Table: Customer

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Passage:

CId	Cust_Name	Gender	TId	Fee	Membership
C1	Sabina	F	G101	10000	12
C2	Rohit	M	G101	9000	10
C3	Asad	M	G102	12000	15
C4	John	M	G103	6000	6
C5	Aastha	F	G104	8000	8
C6	Neha	F	G102	9000	10
C7	Zubain	M	G102	10000	12
C8	Deljeet	F	G104	6000	6

Answer the questions based on above tables.

Question:

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

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A:	String
B:	Tuple
C:	List of strings
D:	Dictionary

Section:	COMPUTER SCIENCE
Item No:	33
Question ID:	**7130133**
Question Type:	MCQ
Question:	What is the length of MAC Address in bits?
A:	48 bits
B:	64 bits
C:	24 bits
D:	72 bits

Section:	COMPUTER SCIENCE
Item No:	34
Question ID:	**7130134**
Question Type:	MCQ
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:
A:	Both A and R are correct and R is the correct explanation of A
B:	Both A and R are correct and R is not the correct explanation of A
C:	A is correct but R is not correct
D:	A is not correct but R is correct

Section:	COMPUTER SCIENCE
Item No:	35
Question ID:	**7130135**
Question Type:	MCQ
Question:	Choose the Network Topology that requires a central controller.
A:	Bus
B:	Star
C:	Mesh
D:	Tree

Section:	COMPUTER SCIENCE
Item No:	36
Question ID:	**7130136**
Question Type:	MCQ

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

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	Given the following options for the statements. A. temp <list3[j] B. list3[i] C. list3[j+1] D. range(n) E. j-1 Choose the correct sequence of statement.
A:	D→B→E→A→C
B:	D→B→A→E→C
C:	B→D→A→E→C
D:	B→A→D→E→C

Section:	COMPUTER SCIENCE
Item No:	40
Question ID:	**7130140**
Question Type:	MCQ
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

Section:	COMPUTER SCIENCE
Item No:	41
Question ID:	**7130141**
Question Type:	MCQ
	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.

Student	
Field	Type
StuID	Numeric
StuName	Varchar(20)

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Passage:

StuAddress	Varchar(50)
StuFatherName	Varchar(20)
StuContact	Numeric
StuAadhar	Numeric
StuClass	Varchar(5)
StuSection	Varchar(1)

Stulibrary

Field	Type
BookID	Numeric
StuID	Numeric
Issued_date	Date
Return_date	Date

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;

Section:	COMPUTER SCIENCE
Item No:	42
Question ID:	**7130142**
Question Type:	MCQ

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.

Student

Field	Type
StuID	Numeric

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Passage:

StuName	Varchar(20)
StuAddress	Varchar(50)
StuFatherName	Varchar(20)
StuContact	Numeric
StuAadhar	Numeric
StuClass	Varchar(5)
StuSection	Varchar(1)

Stulibrary

Field	Type
BookID	Numeric
StuID	Numeric
Issued_date	Date
Return_date	Date

Question:	The primary key of Stulibrary table is/are:
A:	BookID
B:	BookID, StuID
C:	BookID, Issued_date
D:	Issued_date

Section:	COMPUTER SCIENCE
Item No:	43
Question ID:	**7130143**
Question Type:	MCQ

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.

Student

Field	Type

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Passage:

StuID	Numeric
StuName	Varchar(20)
StuAddress	Varchar(50)
StuFatherName	Varchar(20)
StuContact	Numeric
StuAadhar	Numeric
StuClass	Varchar(5)
StuSection	Varchar(1)

Stulibrary

Field	Type
BookID	Numeric
StuID	Numeric
Issued_date	Date
Return_date	Date

Question:	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;

Section:	COMPUTER SCIENCE
Item No:	44
Question ID:	7130144
Question Type:	MCQ

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.

Student

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Passage:

Field	Type
StuID	Numeric
StuName	Varchar(20)
StuAddress	Varchar(50)
StuFatherName	Varchar(20)
StuContact	Numeric
StuAadhar	Numeric
StuClass	Varchar(5)
StuSection	Varchar(1)

Stulibrary

Field	Type
BookID	Numeric
StuID	Numeric
Issued_date	Date
Return_date	Date

Question:	The alternate key for Student table will be_____
A:	StuName
B:	StuContact
C:	StuAadhar
D:	StuClass

Section:	COMPUTER SCIENCE
Item No:	45
Question ID:	**7130145**
Question Type:	MCQ

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.

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Passage:

Student

Field	Type
StuID	Numeric
StuName	Varchar(20)
StuAddress	Varchar(50)
StuFatherName	Varchar(20)
StuContact	Numeric
StuAadhar	Numeric
StuClass	Varchar(5)
StuSection	Varchar(1)

Stulibrary

Field	Type
BookID	Numeric
StuID	Numeric
Issued_date	Date
Return_date	Date

Question:	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;

Section:	COMPUTER SCIENCE
Item No:	46
Question ID:	7130146
Question Type:	MCQ

Identify primary key in the given table student:

Name	AdmNo	Class	Section
Ankit	101	X	A

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Question:	Ankit 101 X A Anuj 102 XII B Bhanu 103 XII A Babita 104 XI B 105 XII C
A:	Name
B:	AdmNo
C:	Section
D:	Class

Section:	COMPUTER SCIENCE
Item No:	47
Question ID:	**7130147**
Question Type:	MCQ
Question:	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

Section:	COMPUTER SCIENCE
Item No:	48
Question ID:	**7130148**
Question Type:	MCQ

Question:	Find the output:
	s = “CuEt#2022”
	f = open(“new.Txt”,“w+”)
	f.write(s)
	f.seek(0)
	c = f.read(9)
	for i in c:
	if i.isupper( ) :
	print(i.lower( ) , end=“#”)
	elif i.islower( ) :
	print(i.upper( ) , end=“#”)
	elif int(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#t##3#1#3#3#
C:	c#U#e#T#$#3#1#3#3#
D:	C#u#e#t###2#0#2#2#

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Section:	COMPUTER SCIENCE
Item No:	49
Question ID:	**7130149**
Question Type:	MCQ

Question:

Consider the table given below.

TableA TableB Outp

SNo	Name	Class
1	Mehek	8A
2	Mahira	6A
3	Lavanya	7A
4	Sanjay	7A
5	Abhay	8A

SNo	Name	Class
1	Aastha	7A
2	Mahira	6A
3	Mohit	7B
4	Sanjay	7A

SNo	Name	Class
1	Mehek	8A
3	Lavanya	7A
5	Abhay	8

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

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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
	
	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'. a 2 b 4 c 6 d 8 e 10 f 12 print(s[:3])
A:	a 2 b 4
B:	a 2 b 4 c 6 d 8
C:	a 2 b 4 c 6
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: Carno Cartype Cost

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	0 2317 Sedan 300000 1 1543 Luxury 400000 2 2054 Hatch back 1000000 3 1669 4x4 700000
A:	sep
B:	end
C:	header
D:	head

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
Question:	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 **ADM** **NAME** **CLASS**

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Question:

1	Anshuman	12A
2	Arun Lal	12C
3	Sachin	12A
4	Kapil	12B
5	Sunil	12A
6	Virat	12C

Based on the above table, which command will give the following result:

CLASS No of students

12A 3

12C 2

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;

Section:	INFORMATICS PRACTICES
Item No:	56
Question ID:	**7130156**
Question Type:	MCQ

Question:

Consider the table given below:

Table : STUDENT

ADMNO	NAME	CLASS	SCORE
A001	Amit	12A	90
A002	Amit	12B	91
A003	Bhavana	12A	90

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	A004 Yamini 12A 89 A005 Ashok 12B 95 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;

Section:	INFORMATICS PRACTICES
Item No:	57
Question ID:	**7130157**
Question Type:	MCQ
Question:	Given are the two statements: one is lebelled 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 the NOT the correct explanation of A
C:	A is true but R is false
D:	A is false but R is true

Section:	INFORMATICS PRACTICES
Item No:	58
Question ID:	**7130158**
Question Type:	MCQ
Question:	Match List I with List II **List I**: A. E-waste, B. Reduce, C. Reuse, D. Recycle **List II**: I. Minimize the purchase according to need only; II. Devices that are no longer in use.; III. Conversion of devices into something to use again and again; IV. Process of re-using the waste after modification. 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

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

Section:	INFORMATICS PRACTICES
Item No:	59
Question ID:	**7130159**
Question Type:	MCQ
Question:	_____ was the first Web browser developed by the National Centre for Supercomputing Application (NCSA).
A:	Mozilla Firefox
B:	Opera
C:	Mosaic
D:	Google Chrome

Section:	INFORMATICS PRACTICES
Item No:	60
Question ID:	**7130160**
Question Type:	MCQ
Question:	Ms. Bhavika wants to change the index of the dataframe and the output for the same is given below: Name Stream student1 ananya humanities student2 bhavya humanities 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’]

Section:	INFORMATICS PRACTICES
Item No:	61
Question ID:	**7130161**
Question Type:	MCQ
Question:	In data science for data analysis, which of the python library are more popular?
A:	Swift
B:	Django
C:	Open office
D:	Pandas

Section:	INFORMATICS PRACTICES
Item No:	62
Question ID:	**7130162**
Question Type:	MCQ
Question:	Which malware is used to generate revenue for its developer?
A:	Spyware
B:	Adware

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C:	Trojan
D:	Ransomware

Section:	INFORMATICS PRACTICES
Item No:	63
Question ID:	**7130163**
Question Type:	MCQ
Question:	A _____ is a hacker with an aim to bring about political and social change.
A:	White hats
B:	Hacktivist
C:	Black hats
D:	Grey hats

Section:	INFORMATICS PRACTICES
Item No:	64
Question ID:	**7130164**
Question Type:	MCQ
Question:	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

Section:	INFORMATICS PRACTICES
Item No:	65
Question ID:	**7130165**
Question Type:	MCQ
Question:	Find the output for following: 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)
A:	AB CD EF GH 0 10 20 30 NaN 1 11 16 17 18 2 40 50 70 NaN
B:	AB CD EF GH 0 10 20 30 No value 1 11 16 17 18 2 40 50 70 No value
C:	AB CD EF GH 0 10 20 30 0 1 11 16 17 18 2 40 50 70 0
	AB CD EF GH 0 10 20 30

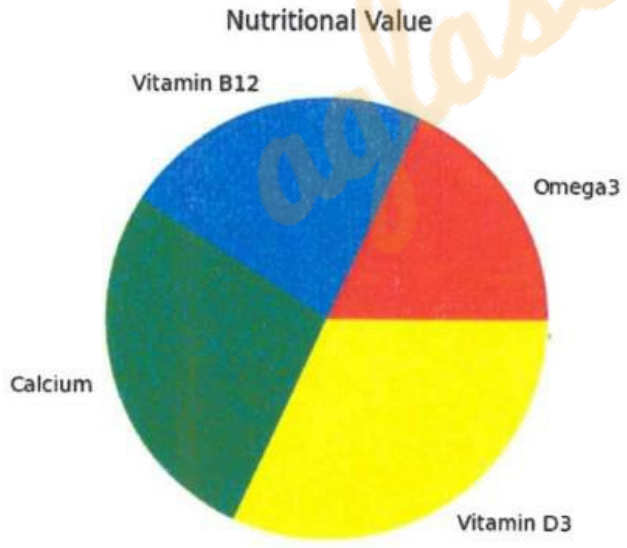
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D:	0 10 20 30 - 1 11 16 17 18 2 40 50 70 -

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: 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. _____ #Statement2  Choose the appropriate option to complete Statment1 and Statement2.
A:	title, show( )
B:	show( ), title
C:	pie, display( )
D:	title, display( )

Section:	INFORMATICS PRACTICES
Item No:	68

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Question ID:	7130168
Question Type:	MCQ

Question:

Consider following stock value data

Stockframe

	March	April	May	June	July
ITC	150	156	170	180	184
KPL	200	222	224	251	255
WPM	400	411	412	411	413
SAM	312	312	311	333	335

Find output for following:

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

A:

	March	April	May	June	July
KPL	200	222	224	251	255
WPM	400	411	412	411	413

B:

	March	April	May	June	July
KPL	200	222	224	251	255
WPM	400	411	412	411	413
SAM	312	312	311	333	335

C:

	March	April
KPL	200	222
WPM	400	411

D:

	March	April	May	June	July
KPL	True	False	True	True	True

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WPM	False	True	True	False	False

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:	INFORMATICS PRACTICES
Item No:	70
Question ID:	**7130170**
Question Type:	MCQ
Question:	Which command is used for combining/merging dataframes in pandas?
A:	pd.combine( )
B:	pd.merge( )
C:	pd.join( )
D:	pd.show( )

Section:	INFORMATICS PRACTICES
Item No:	71
Question ID:	**7130171**
Question Type:	MCQ
Question:	Identify the correct customisations on the bar chart. A. Line style B. Line width C. Edge color D. Color of the bar E. Marker Choose the correct answer from the options given below:
A:	A, B and C only
B:	D and E only
C:	A, B, C and D only
D:	A, B, C, D and E

Section:	INFORMATICS 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

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Question:	'a', 'b',' c',' d', 'e'. Choose the correct statements to do the same. Assuming that Pandas library is already imported with object alias as pd and numpy as np.
A:	pd.Series(np.arange(2,12,2), index=['a','b','c','d','e'])
B:	pd.Series(np.range(2,12,2), index=['a','b','c','d','e'])
C:	pd.Series(np.arange(2,10,2), index=['a','b','c','d','e'])
D:	pd.Series(pd.arange(2,12,2), index=['a','b','c','d','e'])

Section:	INFORMATICS PRACTICES
Item No:	73
Question ID:	**7130173**
Question Type:	MCQ
Question:	Given a dataframe d1 with columns name, stream and Roll_no. Prabhat wants to print the details of 'Bhavya' along with stream. Identify the correct statement.
A:	print(d1[['name'],['stream']] [d1['name']=='Bhavya'])
B:	print(d1[['name','stream']] [d1['name']=='Bhavya'])
C:	print(d1[['name']=='Bhavya'])
D:	print(d1[['name','stream']] [d1['name']='Bhavya'])

Section:	INFORMATICS PRACTICES
Item No:	74
Question ID:	**7130174**
Question Type:	MCQ
Question:	Give the output for the following query: select monthname("2003-11-10");
A:	October
B:	November
C:	10
D:	11

Section:	INFORMATICS PRACTICES
Item No:	75
Question ID:	**7130175**
Question Type:	MCQ
Question:	Assume the given tables Dance and Music. Dance SNo | Name | Class 1 | Aastha | 7A 2 | Mahira | 6A 3 | Mohit | 7B 4 | Sanjay | 7A Music SNo | Name | Class 1 | Mehek | 8A 2 | Mahira | 6A 3 | Lavanya | 7A 4 | Sanjay | 7A 5 | Abhay | 8A

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

SNo	Name	Class
1	Aastha	7A
2	Mahira	6A
3	Mohit	7B
4	Sanjay	7A
1	Mehek	8A
3	Lavanya	7A
5	Abhay	8A

A:	U
B:	∩
C:	-
D:	X

Section:	INFORMATICS PRACTICES
Item No:	76
Question ID:	**7130176**
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:	77
Question ID:	**7130177**
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:	78
Question ID:	**7130178**
Question Type:	MCQ
	'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

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Question:	and pandas. C. create_engine( ) does not return any object. D. create_engine( ) takes only database name as the parameter for connecting with pandas. E. String inside create_engine( ) is known as connection string. Choose the correct answer from the options given below:
A:	A, B and C only.
B:	A, B and E only
C:	B, C and D only.
D:	A, C and E only

Section:	INFORMATICS PRACTICES
Item No:	79
Question ID:	**7130179**
Question Type:	MCQ
Question:	Match List I with List II **List I** A. DataFrame.shape B. DataFrame.T C. DataFrame.index D. DataFrame.columns **List II** I. To display names of columns II. To display the labels III. To display dimensions of data dataframe IV. To interchange columns and rows **Choose the correct answer from the options given below:**
A:	A-III ,B-II ,C-I ,D-IV
B:	A-IV ,B-I ,C-II ,D-III
C:	A-III ,B-IV ,C-II ,D-I
D:	A-II , B-I ,C-III ,D-IV

Section:	INFORMATICS PRACTICES
Item No:	80
Question ID:	**7130180**
Question Type:	MCQ
Question:	Consider the following series: sera a 1 b 2 serb x 10 y 20 a 100 b 20 Choose the correct value of sera after execution of the following statement sera.add(serb, fill_value=0)
A:	a 1 b 2 x 10 y 20

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	a 100 b 20
B:	a 101 b 22 x 10 y 20
C:	101 22 110 120
D:	a 101 b 22 x NaN y NaN

Section:	INFORMATICS PRACTICES
Item No:	81
Question ID:	**7130181**
Question Type:	MCQ
Question:	_____ is 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:	Netizen
D:	Digital citizen

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Section:	INFORMATICS PRACTICES
Item No:	84
Question ID:	**7130184**
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.

Section:	INFORMATICS PRACTICES
Item No:	85
Question ID:	**7130185**
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( )

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