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Q5. The clause	e is used to arrange	records of a table. (B) Order		[1]
(A) Alter (C) Structure		(D) Order by		
Q6 is a syst updated and secure le	•	•	•	twork authenticate
the transaction.		(D) Client Co.		[1]
(A) P2P		(B) Client Sei		
(C) DBMS		(D) Blockcha	ın	
Q7. Which one of the	following is not a ke	,	guage?	[1]
(A) Pass		(B) Eval		
(C) Assert		(D) Nonlocal		
Q8. A condition or ch	eck applicable on a f	ield or set of fields [1	1]	
(A) Constraint		(B) Keyword		
(C) Clause		(D) None of t	hese	
Q9. Which of the follo	owing is not a feature	e of MySQL:		[1]
(A) Free		(B) Portable		
(C) Case sensitive		(D) Supports	query language	Э
Q10. Which of the fol (A) Underscore and a	· ·	•		[1]
(B) Unlimited length.	importation and the on	ily two oposial orial ac	ntoro anomou	
(C) All private member (D) None of the ment		g and trailing unders	cores.	
Q11. A table can hav	e maximum of prima	ıry keys :		[1]
(A) 1	·	(B) 2		
(C) 3		(D) Multiple		

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	be the output of the foll	lowing code :		[1]
162//55 + 78%4	4 + 12**2	(D) 147		
(A) 149 (C) 142		(B) 147 (D) 148		
Q13. Which of the	he following is not an e	xample of robotics?		[1]
(A) Sophia		(B) Drone		
(C) CRAY		(D) Both A 8	άВ	
Ω14 Δ key that	links multiple tables is	called?		[1]
(A) Foreign key	miks maniple tables is	(B) Primary	kev	[,]
(C) Candidate ke	ey	(D) Alternate	•	
	he following can be use		. •	nd why? [1]
(A) Total		(B) > sumNi		
(C) IQ		(D) Addition	-2	
Q16. is d	designed to solve a spec	cific problem or to do a	specific task.	[1]
(A) Application S	Software	(B) System S	Software	
(C) Utility Softwa	are	(D) User		
Directions (Q1	7 and Q18): In the fo	ollowing Questions. a	a statement of As	ssertion (A) is
	statement of Reason	=		,
	(A): A computer can promains in executing then		nat are programme	ed in it and can
•	man beings can think ar		ne cannot think.	[1]
	R are true and R is the	•		
	R are true but R is NOT	the correct explanation	n of A	
(C) A is true but (D) A is false and				
Answer:	a K is ii uc			
	R are true but R is NOT	the correct explanation	n of A	

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Section-C

Q26. Consider the table Accessories given below and write SQL queries:

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[3]

TABLE: ACCESSORIES

Section C consists of 5 Questions of 3 marks each.

No	Name	Price	Id
A01	Mother Board	12000	S01
A02	Hard Disk	5000	S01
A03	Keyboard	500	S02
A04	Mouse	300	S01
A05	Mother Board	13000	S02
A06	Keyboard	400	S03
A07	LCD	6000	S04
T08	LCD	5500	S05
T09	Mouse	350	S05
T10	Hard Disk	4500	S03

- (i) Display name and price of all accessories in ascending order of their price.
- (ii) To display names of accessories whose name ends with "d" and price is above 1000.
- (iii) To increase the price of accessories by 200 whose name has "b" somewhere in between.

OR

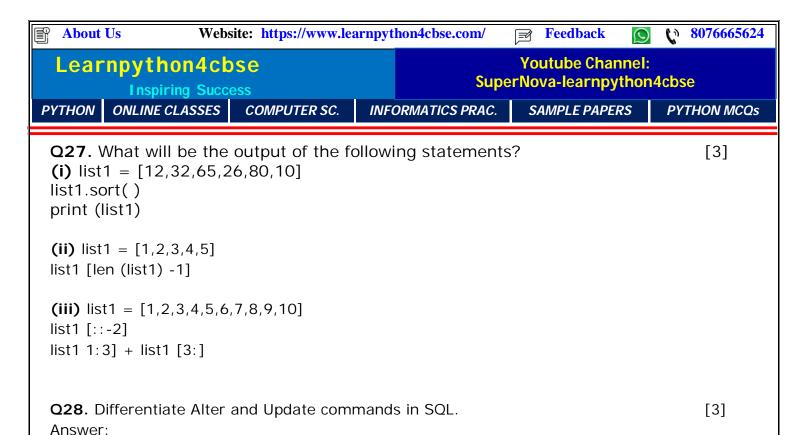
Write queries with respect to the table Hospital given below:

Table: Hospital

PatId	Pname	Dept	Charges
P01	Amit	ENT	5600
P02	Sunil	Eye	7000
P03	Rina	Ortho	2500
P04	Akash	Ortho	9000
P05	Amitabh	ENT	4000
P06	Preeti	Ortho	5000

- (i) Display details of "Ortho" department patient in descending order of names.
- (ii) Add a new column Docname varchar(20) to the table.
- (iii) Delete records of patients whose name starts with "A"

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Alter	Update
1. It belongs to DDL category	1. It belongs to DML category
2. It changes the structure of the table	2. It modifies data of the table.
3. Columns can be added, modified, deleted etc.	3. Data can be changed, updated with values and expressions.

Q29. Explain the use order by clause.

[3]

OR

Write most appropriate data types for the following columns of a Book table in a database storing data of books.

- (A) Bookname
- (B) Date of publication
- (C) Price

Q30. Write a program to input Roll and name of as many students and create a dictionary from the details entered. Each entry should have roll as key and name as value. Also display the dictionary. [3]

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Section-D Section D consists of 2 Questions of 4 marks each.

Q31. Write SQL queries for the table given below:

[4]

CID	CNAME	GENDER	SID	AREA
1001	R SHARMA	FEMALE	101	NORTH
1002	MR TIWARY	MALE	102	SOUTH
1003	MK KHAN	MALE	103	EAST
1004	AK SINGH	MALE	102	EAST
1005	S SEN	FEMALE	101	WEST
1006	R DUBEY	MALE	104	NORTH
1007	M AGARWAL	FEMALE	104	NORTH
1008	S DAS	FEMALE	103	SOUTH
1009	RK PATIL	MALE	102	NORTH
1010	N KRISHNA MURTY	MALE	102	SOUTH

- (i) Display Name and SID of "Male" customers.
- (ii) Display details of customers of NORTH area whose name ends with "A"
- (iii) Update the table to change AREA to SOUTH for all FEMALE customers
- (iv) Remove records of customers having Sil) 104.

Q32. (i) What will be the output for the following Python statement?

[4]

L = [10, 20, 30, 40, 50]

L = L + 5

print(L)

(ii) What will be the output of the following python code?

L = [10, 20]

L1 = [30, 40]

L2 = [50,601]

L. append (L1)

L. extend(L2)

print(L)

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(iii) Find the output

$$>>>11 = [1, 2, 3, 4]$$

$$>>>12=[2, 3, 4, 5]$$

>>>11 > 12

OR(Option for iii only)

Predict output of the following:

$$L = [10, 12, 2, 22, 19, 40]$$

L[2] = 14

L.insert(3, 11)

del L[4:5]

print(L)

Section-E Section E consists of 3 Questions of 5 marks each.

Q33. Write SQL query for the Qs that follow based on given table Worker

[5]

Worker_ID	Name	Salary	Joining_Date	Department
001	Monika	10000	2014-02-20	HR
002	Shikha	8000	2014-06-11	Admin
003	Arun	30000	2014-02-20	HR
004	Nishant	15000	2014-02-20	Admin
005	Vivek	15000	2014-06-11	Admin
006	Santosh	20000	2014-01-20	Accountant
007	Naresh	7500	2014-04-11	Accountant

- (i) To display Name and joining date of workers whose salary is greater than 10000.
- (ii) To display details of those workers whose name started with 'N'.
- (iii) To display all workers details from worker table order by Name ascending.
- (iv) To display Name and Salary of those workers who work in 'HR' or 'Admin Department.
- (v) To display the total number of workers who work in Accountant department.

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OR

Consider the table Hospital storing details of patients as follows:

PatId	Pname	Dept	Charges	DtofAdm
P1	Varun	PAED	700	2021-09-02
P2	Sunita	PAED	900	NULL
P3	Samarpan	ENT	1000	2020-08-09
P4	Rishabh	ORTHO	500	1995-06-05
P5	Bineeta	ORTHO	450	2012-03-04

Write SQL commands for (i) - (v)

- (i) To create the table with appropriate data types.
- (ii) To display only the names and departments of patients of "ENT".
- (iii) To increase the charges of all departments by 20%.
- (iv) Ib add a new column Phone of type integer.
- (v) Remove the entire table.
- Q34. What are the major components of a computer system? How do different components of a computer communicate with each other?
- Q35. Write a program to input a sentence and using a list display the words that have even number of vowels. [5]

OR

Write a Python program to find the list of words that are longer than n from a given list of words.

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