

In case of MCQ, text of the correct answer should also be written.

Section-A (18 x 1 = 18 Marks)

1. In topology, the devices are arranged in the form of multiple branches in hierarchical manner.
 (i) Star (ii) **Tree** (iii) Mesh (iv) Bus

2. Ridhima purchased a license for a copy of a software and made additional copies without the permission of the copyright owner. This act of hers is known as _____ .
 (i) Trademark infringement (ii) Identity Theft
 (iii) **Copyright Infringement** (iv) Patent

3. What can an individual do to enhance the privacy of data stored digitally ?
 (i) Share sensitive information on social media platforms.
 (ii) Use your date of birth as your password.
 (iii) **Regularly update software installed on your device.**
 (iv) Download and install software from unknown sources.

4. What will be the output of the following query ?
SELECT POWER(2,MOD(17,3));
 (i) 8 (ii) 1 (iii) 0 (iv) **4**

5. Which of the following is not an aggregate function in MYSQL ?
 (i) AVG() (ii) MAX() (iii) **LCASE()** (iv) MIN()

6. _____ is the gaining of unauthorized access to data in a computer system.
 (i) Phishing (ii) Plagiarism (iii) **Hacking** (iv) Copyright Violation

7. Which of the following is NOT true with respect to CSV files ?
 (i) Values are separated by commas.
 (ii) to_csv() can be used to save a dataframe to a CSV file.
 (iii) CSV file is created using a word processor.
 (iv) CSV file is a type of text file.
 A) All the options are true with respect to CSV files.

8. Which MySQL command helps to add a primary key constraint to any table that has already been created ?
 (i) UPDATE (ii) INSERT INTO (iii) **ALTER TABLE** (iv) ORDER BY

9. What will be the output of the following query ?
SELECT SUBSTR("G20 2023 INDIA", 5, 4);
 (i) G20 2 (ii) **2023** (iii) INDI (iv) 023

10. What will be the output of the following Python code ?

```
import pandas as pd
dd= { 'One':1, 'Two':2, 'Three':3, 'Seven':7} rr=pd.Series(dd)
rr['Four']=4 print(rr)
```

 (i)
 One 1
 Two 2
 Three 3
 Seven 7
 dtype: int64
 (ii)
 One 1
 Two 2
 Three 3
 Four 4
 Seven 7
 dtype: int64
 (iii)
 Four 4
 One 1
 Two 2
 Three 3
 Seven 7

dtype: int64

(iv)

One 1

Two 2

Three 3

Seven 7

Four 4

dtype: int64

11. Which of the following clause cannot work with **SELECT** statement in **MYSQL** ?

- (i) FROM (ii) **INSERT INTO** (iii) WHERE (iv) GROUP BY

12. Which of the following command will not show first five rows from the Pandas series named **SI** ?

- (i) SI[0:5] (ii) SI.head() (iii) SI.head(5) (iv) **SI.head[0:5]**

13. Rama was unable to understand how the recruiters were able to know about her digital activity when she has not shared anything with them.

The recruiters might have checked _____ of Rama.

- (i) Carbon Footprint (ii) Water Footprint (iii) Online Print (iv) **Digital Footprint**

14. Which MySQL string function is used to extract a substring from a given string based on a specified starting position and length ?

- (i) SUBSTRING_INDEX() (ii) LENGTH() (iii) **MID()** (iv) TRIM()

15. The software that is free for anyone, and its source code is available for access, modification, correction, and improvement is called _____.

- (i) Proprietary software (ii) Commercial software
(iii) **Free and Open source software** (iv) Copyrighted software

16. _____ help in data protection through copyrights, patents and trademarks.

- (i) Data Privacy Right (ii) Right to Innovation
(iii) **Intellectual Property Rights (IPR)** (iv) Right to Data Protection

17. **Assertion (A)** : Cyber Bullying can have serious, emotional and psychological effects on victims.

Reason (R) : Online Bullying is not a crime while offline bullying is a crime.

- (i) Both (A) and (R) are true and (R) is the correct explanation for (A).
(ii) Both (A) and (R) are true and (R) is not the correct explanation for (A).
(iii) **(A) is true and (R) is false.**
(iv) (A) is false but (R) is true.

18. **Assertion (A)** : A Series is a one dimensional array and a DataFrame is a two-dimensional array containing sequence of values of any data type. (int, float, list, string, etc.)

Reason (R) : Both Series and DataFrames have by default numeric indexes starting from zero.

- (i) Both (A) and (R) are true and (R) is the correct explanation for (A).
(ii) **Both (A) and (R) are true and (R) is not the correct explanation for (A).**
(iii) (A) is true and (R) is false.
(iv) (A) is false but (R) is true.

19. Which type of network covers a small geographical area like a single office, building, or school campus?

- (i) PAN (ii) MAN (iii) **LAN** (iv) WAN

Section-B (7 x 2 = 14 Marks)

19. A) Expand URL. Identify the protocol and domain in the following URL :

<https://epathshala.nic.in/topics.php?len=en>

A) URL : **Uniform Resource Locator**

Protocol - https

Domain - **epathshala.nic.in**

OR

B) Write any one advantage and one disadvantage of Star topology.

A) Advantage of Star Topology:

Centralized control and management makes it easy to monitor, troubleshoot, and scale the network.

Other points:

reliable – if one cable or device fails then all the others still work

high-performing as no data collisions can occur

Easier to install

Easy fault detection

No disruption to the network when connecting or removing devices

Disadvantage of Star Topology :

Dependence on the central device (hub or switch). If the central device fails, the entire network becomes inaccessible.

Other points:

More Cable required

More expensive

20. The Python code written below has syntactical errors. Rewrite the correct code and underline the correction(s) made.

```
import Pandas as pd
stud=['Name':'Ramya','Class':11,'House':'Red']
s=p.Series(s)
print(s)
```

Ans)

```
import pandas as pd
stud = {'Name':'Ramya', 'Class':11, 'House':'Red'}
s = pd.Series(stud)
print(s)
```

21. What will be the output of the following SQL queries :

i) SELECT RIGHT ("CHANDRAYAN3",4);

Ans) YAN3

ii) SELECT ROUND(76345.456,2);

Ans) 76345.46

22. Find the output of the following Python code :

```
import pandas as pd
com=pd.Series([45,12,15,200],index=['mouse','printer', 'webcam','keyboard'])
print(com[1:3])
```

A) printer 12
webcam 15
dtype: int64

23. What is the primary function of a gateway in a computer network ? Explain briefly.

A) Gateway is used to connect two networks or applications that use different protocols.

24. Consider the following Python code :

```
import pandas as pd
S1=pd.Series(['Rubina','Jaya','Vaibhav'],index=[10,16,18])
S2=pd.Series(_____, index=[10,16,18])
S3=pd.Series([56,67,86], _____)
xiiia={'Name':_____, 'Subject':S2, 'Marks':S3}
df=pd.DataFrame(_____)
print(df)
```

Complete the above Python code to display the following output :

	Name	Subject	Marks
10	Rubina	IP	56
16	Jaya	HSc	67
18	Vaibhav	IP	86

A)

```
import pandas as pd
S1=pd.Series(['Rubina','Jaya','Vaibhav'], index=[10,16,18])
S2=pd.Series(['IP','HSc','IP'], index=[10,16,18])
S3=pd.Series([56,67,86], index=[10,16,18])
xiiia={'Name':S1, 'Subject':S2, 'Marks':S3}
df=pd.DataFrame(xiiia)
print(df)
```

25. Write any two differences between UPDATE and ALTER TABLE commands of MySQL.

UPDATE	ALTER TABLE
--------	-------------

UPDATE command is used to modify value(s) stored in row(s) in a relation. It is a DML (Data Manipulation Language) command / UPDATE command performs action on data in a table. Example UPDATE Student SET Marks=30 WHERE RollNo = 1;	ALTER TABLE command is used to add, delete, modify, rename attribute(s) in a relation. It is a DDL(Data Definition Language) command / ALTER TABLE command performs action on the structure of the table. Example ALTER TABLE Student ADD Email varchar(255);
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Section-C (4 x 3 = 12 Marks)

26.A) Consider the given table and write the following queries in MySQL :

Table: Sports

Sid	SName	Fees	DateofPlay	CoachId
1	Karate	1200	2024-08-24	S1
2	Football	1800	2024-09-13	S2
3	Cricket	1500	2024-06-14	S3
4	Lawn Tennis	2500	2024-09-25	S4
5	Badminton	1800	2024-10-20	S5

(i) To display Sid and name of those sports which are to be played in the month of September.

A) SELECT Sid, SName FROM Sports WHERE Monthname(DateofPlay)= "September";

OR

SELECT Sid, SName FROM Sports WHERE Month(DateofPlay)= 9;

OR

SELECT Sid, SName FROM Sports WHERE Month(DateofPlay)= '9';

OR

SELECT Sid, SName FROM Sports WHERE DateofPlay LIKE "%-09-%";

OR

SELECT Sid, SName FROM Sports WHERE DateofPlay>='2024-09-01' AND DateofPlay<='2024-09-30';

OR

SELECT Sid, SName FROM Sports WHERE DateofPlay BETWEEN '2024-09-01' AND '2024-09-30';

(ii) To display all Sports names in lower case.

A) SELECT LCASE(SName) FROM Sports;

OR

SELECT LOWER(SName) FROM Sports;

(iii) To display last two characters of all sports names whose fees is less than 1500.

A) SELECT RIGHT(SName, 2) FROM Sports WHERE Fees<1500;

OR

SELECT MID(SName,LENGTH(SName)-1,2) FROM Sports WHERE Fees<1500;

OR

SELECT SUBSTR(SName,-2) FROM Sports WHERE Fees<1500;

OR

SELECT SUBSTR(SName,LENGTH(SName)-1,2) FROM Sports WHERE Fees<1500;

OR

SELECT SUBSTRING(SName,LENGTH(SName)-1,2) FROM Sports WHERE Fees<1500;

OR

B) Predict the output of the following queries based on the table Sports given above :

(i) SELECT UCASE(TRIM(SName)) FROM Sports WHERE Sid=5 ;

A) BADMINTON

(ii) SELECT LEFT (SName,3) FROM Sports WHERE DateofPlay>"2024-09-13";

A) Law

Bad

(iii) SELECT SUBSTR (CoachId,1) FROM Sports WHERE SName="Cricket" or Fees>=2000;

A) S3

S4

27. Kabir, a data analyst, has stored the voter's name and age in a dictionary. Now, Kabir wants to create a list of dictionaries to store data of multiple voters. He also wants to create a DataFrame from the same list of dictionaries having appropriate row labels as shown below :

	Voter Name	Voter_Age
Ar1001	Arjun	35
Ba3002	Bala	23
Go4002	Govind	25
Dh4007	Dhruv	19
Na6005	Navya	18

Help Kabir in writing a Python program to complete the task.

A) import pandas as pd

```
voters=[{"Voter_Name":"Arjun", "Voter_Age":35}, {"Voter_Name":"Bala", "Voter_Age":23},
        {"Voter_Name":"Govind", "Voter_Age":25}, {"Voter_Name":"Dhruv", "Voter_Age":19},
        {"Voter_Name":"Navya", "Voter_Age":18}]
```

```
dfVoters=pd.DataFrame(voters, index=["Ar1001", "Ba3002", "Go4002", "Dh4007", "Na6005"])
```

```
print(dfVoters)
```

28. Answer the following questions based on the table Salesman given below :

Table: Salesman

salesman_id	name	city	commission
5001	Neil Bhatt	Delhi	0.15
5002	Rohan Malik	Mumbai	0.13
5005	Ravi Mohan	Delhi	0.11
5006	Mehak Rai	Delhi	0.14
5007	Paul Lal	Bangalore	0.13
5003	Raman Sen	Kolkata	0.12

(i) How many tuples does the given table have ?

A) 6

(ii) Suggest the primary key for the given table.

A) salesman_id

(iii) Write the MySQL query to display all the records in descending order of commission.

A) **SELECT * FROM Salesman order by commission desc;**

29.a) Police officials arrested four members of an interstate gang for allegedly duping many people from different states on the pretext of providing them with holiday packages after creating fake websites of Tours and Travels. The cyber criminals sent fraudulent emails containing links to fraudulent websites created by them.

The victim in his complaint told police that he was offered a holiday package to Dubai for a total of 10 times in the next 10 years and was charged ₹ 1.45 lakh through his credit card.

Answer the following questions pertaining to the given news byte :

(i) Identify the type of cybercrime mentioned in above case.

A) Phishing

Internet Fraud

(ii) Which Act deals with such crimes in India ?

A) IT Act 2000 (Information Technology Act 2000)

(iii) Suggest any one precaution that can be taken to avoid falling prey to such criminals.

A) Ensure the website used is a trustworthy

Provide your personal/sensitive information only to reliable sources

Keep your browser up to date

Use firewalls

Use Antivirus Software

Avoid installing pirated software

Always download software from known and secure websites

Always update software

Use strong password(s) and change it periodically

Do not use cookies from unknown sites

Perform online transactions from known and secure sites

Always secure wireless network(s) with strong password(s) and regularly change it/them

OR

ABC Electronics, a popular electronics retail chain, has been a prominent player in the market for years. However, recent concerns over environmental degradation and e-waste have prompted the company to rethink its strategies and practices. As the newly appointed sustainability manager, you've been asked to answer the following questions :

(i) Considering the environmental concerns associated with e-waste, outline any one negative impact of the electronic products on the environment.

- A) Release toxic pollutants
- Health hazards
- Degradation of environment
- Soil pollution
- Water pollution
- Air pollution

(ii) Gopal is a college student who recently bought his new smartphone from ABC electronics. He's excited about the new features and improved performance of his new device. However, he's now left with his old smart phone, which is still functional but considered outdated. Suggest him any one action that he can take for his old smartphone.

- A) Donate the old phone **OR**
- Sell the old phone **OR**
- Reuse the old phone **OR**
- Refurbish the old phone

(iii) Provide any one recommendation on how ABC Electronics can responsibly manage its e-waste while minimizing harm to the environment.

- A) Reduce the e-waste by extending the lifespan of devices through proper maintenance. **OR**
- Reuse the devices whenever possible. **OR**
- Recycle the e-waste components.

30. Consider the given DataFrame 'password':

	CodeName	Category	Frequency
0	aaaaaa	alpha	6.91
1	dragon	animal	18.52
2	baseball	sport	1.29
3	football	sport	11.11
4	monkey	animal	3.72
5	qwerty	alpha	1.85
6	abcde	alpha	3.19

Write suitable Python statements for the following :

(i) To add a new row with following values :

CodeName - 'abc123'

Category - alphanumeric

Frequency - 12.8

A) password.loc[7]=['abc123','alphanumeric',12.8]

OR

password.at[7]=['abc123','alphanumeric',12.8]

OR

password.loc[len(password)] = ['abc123','alphanumeric',12.8]

OR

password.at[len(password)] = ['abc123','alphanumeric',12.8]

OR

password.loc[len(password.index)] = ['abc123','alphanumeric',12.8]

OR

password.at[len(password.index)] = ['abc123','alphanumeric',12.8]

OR

password.loc[7,:]=['abc123','alphanumeric',12.8]

OR

password.at[7,:]=['abc123','alphanumeric',12.8]

OR

password=password.append({"CodeName":"abc123","Category":"alpha numeric","Frequency":12.8}, ignore_index=True)

OR

df1=pd.DataFrame({"CodeName":["abc123"],"Category":["alphanumeric"],"Frequency":[12.8]})

OR

password=pd.concat([password,df1], ignore_index=True)

(ii) To delete the row with the row label 2.

A) password.drop(2, inplace=True)

password.drop(2, inplace=True, axis=0)

OR

password.drop(labels=2, inplace=True)

OR

password.drop(labels=2, axis=0, inplace=True)

OR

password.drop([2], inplace=True)

OR

password.drop([2], axis=0, inplace=True)

OR

password=password.drop([2])

OR

password=password.drop([2], axis=0)

OR

password.drop([password.index[2]], inplace=True)

OR

password.drop(password.index[2:3], inplace=True)

OR

(iii) To delete the column having column label as Frequency.

A) password.drop("Frequency", axis=1, inplace=True)

OR

password.drop(columns=['Frequency'], inplace=True)

OR

password.drop(password.columns[2], axis=1, inplace=True)

OR

password.drop(password.iloc[:, 2:], inplace=True, axis=1)

OR

password.drop(password.loc[:, "Frequency":].columns, inplace=True, axis=1)

Section-D (2 x 4 = 8 Marks)

31. Rupam created a MySQL table to store the details of Nobel prize winners. Help her to write the following MySQL queries :

Table: NOBEL

Winner_id	YEAR	SUBJECT	WINNER	COUNTRY	CATEGORY
1001	1970	Physics	Hannes Alfvén	Sweden	Scientist
1002	1970	Physiology	Bernard Katz	NULL	Scientist
1003	1970	Literature	Aleksandr Solzhenitsyn	Russia	Linguist
1004	1971	Chemistry	Gerhard Herzberg	Germany	Scientist
1005	1978	Peace	Menachem Begin	Israel	Prime Minister
1006	1987	Economics	Robert Solow	USA	Economist
1007	1994	Literature	Kenzaburo Oe	Japan	Linguist

(i) Display the names of Nobel Prize winner in 'Literature' for the year 1970.

A) SELECT WINNER FROM NOBEL WHERE SUBJECT="Literature" AND YEAR = 1970;

(ii) Display the subject and category of winners whose country is not known.

A) SELECT SUBJECT, CATEGORY FROM NOBEL WHERE COUNTRY IS NULL;

(iii) Display the details of all Nobel Prize winners who were Scientists.

A) SELECT * FROM NOBEL WHERE CATEGORY="Scientist";

(iv) Count total number of winners whose subject is Literature.

A) SELECT COUNT(*) FROM NOBEL WHERE SUBJECT="Literature";

32) Ms. Ritika conducted an online assessment and stored the details in a DataFrame result as given below :

	Name	Score	Attempts	Qualify
a	Atulya	12.5	1	yes
b	Disha	9.0	3	no
c	Kavita	16.5	2	yes
d	John	15.0	1	no

Answer the following questions :

(i) Predict the output of the following Python statement:

```
print(result.loc[:, 'Attempts'] > 1)
```

- A) A False
- B True
- C True
- D False

Name: Attempts, dtype: bool

(ii) Write the Python statement to display the last three records.

A) `print(result.tail(3))`

OR

`print(result.iloc[1:])`

OR

`print(result.iloc[1:4])`

OR

`print(result.iloc[[1,2,3],:])`

OR

`print(result.loc[["b", "c", "d"]])`

(iii) Write Python statement to display records of 'a' and 'd' row labels.

A) `print(result.loc[["a", "d"]])`

OR

`print(result.iloc[[0,3],:])`

(OR)

(iii) (Option for Part (iii) only)

Write suitable Python statement to retrieve the data stored in the file, 'registration.csv' into a DataFrame, 'regis'.

A) `regis=pd.read_csv("registration.csv")`

SECTION-E (3 x 5 = 15 Marks)

33) Excellent Consultancy Pvt. Ltd. maintains two tables for all its employees.

Table: Employee

Employee_id	First_name	Last_name	Salary	Joining_date	Department
E101	Monika	Das	100000	2019-01-20	Finance
E102	Mehek	Verma	600000	2019-01-15	IT
E103	Manan	Pant	890000	2019-02-05	Banking
E104	Shivam	Agarwal	200000	2019-02-25	Insurance
E105	Alisha	Singh	220000	2019-02-28	Finance
E106	Poonam	Sharma	400000	2019-05-10	IT
E107	Anshuman	Mishra	123000	2019-06-20	Banking

Table: Reward

Employee_id	Date_reward	Amount
E101	2019-05-11	1000
E102	2019-02-15	5000
E103	2019-04-22	2000
E106	2019-06-20	8000

Write suitable SQL queries to perform the following task :

(i) Change the Department of Shivam to IT in the table Employee.

A) `UPDATE Employee SET Department="IT" WHERE First_name="Shivam";`

(ii) Remove the record of Alisha from the table Employee.

A) `DELETE FROM Employee WHERE First_name="Alisha";`

(iii) Add a new column Experience of integer type in the table Employee.

A) `ALTER TABLE Employee ADD Experience int;`

OR

`ALTER TABLE Employee ADD COLUMN Experience int;`

(iv) Display the first name, last name and amount of reward for all employees from the tables Employee and Reward.

A) `SELECT First_name, Last_name, Amount FROM Employee NATURAL JOIN Reward;`

OR

SELECT First_name, Last_name, Amount FROM Employee E, Reward R WHERE E.Employee_id=R.Employee_id;

(v) Display first name and salary of all the employees whose amount is less than 2000 from the tables Employee and Reward.

A) SELECT First_name, Salary FROM Employee NATURAL JOIN Reward WHERE Amount<2000;

OR

SELECT First_name, Salary FROM Employee E, Reward R WHERE E.Employee_id=R.Employee_id AND Amount<2000;

OR

Write suitable SQL queries for the following task:

(i) Display the year of joining of all the employees from the table Employee.

A) SELECT YEAR(Joining_date) FROM Employee;

(ii) Display each department name and its corresponding average salary.

A) SELECT Department, AVG(Salary) FROM Employee GROUP BY Department;

(iii) Display the first name and date of reward of those employees who joined on Monday from the tables Employee and Reward.

A) SELECT First_name, Date_reward FROM Employee NATURAL JOIN Reward WHERE DAYNAME(Joining_date)="Monday";

OR

SELECT First_name, Date_reward FROM Employee E, Reward R WHERE E.Employee_id=R.Employee_id AND DAYNAME(Joining_date)="Monday";

(iv) Display sum of salary of those employees whose reward amount is greater than 3000 from the tables Employee and Reward.

A) SELECT SUM(Salary) FROM Employee NATURAL JOIN Reward WHERE Amount>3000;

OR

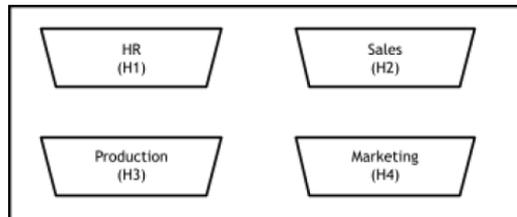
SELECT SUM(Salary) FROM Employee E, Reward R WHERE E.Employee_id=R.Employee_id AND Amount>3000;

(v) Remove the table Reward.

A) DROP TABLE Reward;

34. FULLMAN Tech, Bengaluru is a company that deals with software development. They have different divisions HR (H1), Sales (H2), Production (H3) and Marketing (H4).

The layout of the Bengaluru branch is :



The management wants to connect all the divisions as well as all the computers of each division (H1, H2, H3 and H4).

Distance between the divisions are as follows :

H1 to H2	76 m
H1 to H3	185 m
H1 to H4	88 m
H2 to H3	140 m
H2 to H4	125 m
H3 to H4	160 m

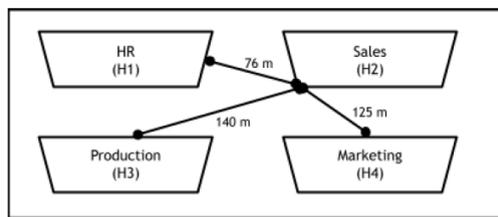
Number of computers in each of the division

Division	Number of Computers
H1	140
H2	340
H3	180
H4	260

Based on the above specifications, answer the following questions :

(i) Suggest the topology and draw the most efficient cable layout for connecting all the divisions of Bengaluru branch.

A) Star Topology



(ii) FULLMAN Tech is expanding its reach and therefore it establishes a new office in Delhi. Out of LAN, MAN, and WAN what kind of network will be created to connect Bengaluru office with Delhi Office ?

A) WAN

(iii) Suggest the division for the placement of server in Bengaluru branch. Explain the reason for your selection.

A) Sales (H2).

Maximum number of computers in Sales division

(iv) Suggest the placement of the following devices in Bengaluru branch:

(a) Repeater

(b) Switch/Hub

A) (a) Between Sales (H2) and Production (H3), Between Sales(H2) and Marketing(H4)

(b) One in each of the divisions HR(H1), Sales(H2), Production(H3), Marketing(H4)

v) The company's manager Ms. Ritu is worried as to how she can extend and modify the functionality of the web browser. Help her by giving names of any two tools.

A) Extensions

Plug-ins

Add-Ons

(½ Marks each for writing name of Any 2 correct tools / method)

Note: Names of tools like Grammarly /AdBlock to be accepted.

Mentioning of any 2 correct methods like Updation of browser/Change to faster browser/reinstalling browser to be accepted.

35.a) The inventory management software of a grocery shop stores the price of all fruits as follows:

Fruits=['Apple','Guava','Papaya','Grapes','Mango']

Price=[150,70,50,30,120]

Write suitable Python code to generate a Bar Chart on the given data. Also add the chart title and label for X and Y axis. Also add suitable statement to save this chart with the name fruits.png.

A)

```
import matplotlib.pyplot as plt
```

```
Fruits=['Apple','Guava','Papaya','Grapes','Mango']
```

```
Price=[150,70,50,30,120]
```

```
plt.bar(Fruits,Price)
```

```
plt.title("Fruits Prices")
```

```
plt.xlabel("Fruits")
```

```
plt.ylabel("Price")
```

```
plt.savefig("fruits.png")
```

```
plt.show()
```

#Statement 1

#Statement 2

#Statement 3

#Statement 4

#Statement 5

#Statement 6

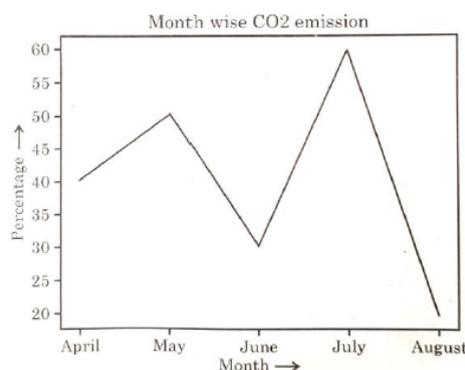
#Statement 7

#Statement 8

#Statement 9

OR

B) Write suitable Python code to draw the following line chart "CO2 Emission" having title and label for X and Y axis as shown below.



Also give suitable Python statement to save this chart with the name, emission.png.

```
A) import matplotlib.pyplot as plt
```

```
month=["April", "May", "June", "July", "August"]
```

```
percent=[40,50,30,60,20]
```

```
plt.plot(month, percent)
```

#Statement 1

#Statement 2

#Statement 3

#Statement 4

```
plt.title("Month wise CO2 emission")  
plt.xlabel("Month")  
plt.ylabel("Percentage")  
plt.savefig("emission.png")  
plt.show()
```

```
#Statement 5  
#Statement 6  
#Statement 7  
#Statement 8  
#Statement 9
```