Sec-A(1m x 18)

Q1. "python program is not case sensitive language" True/False

Q2. In MySQL database if char(20) for A attribute storing "Click@Career" and varchar(20) is storing "SujeetSir" for attribute B. How many Bytes are stored by Attribute A and Attribute B

   a) 9,12 b) 12,9 c) 20, 9 d) 12,20

Q3. What will be the output of the code given below

print(2*3//4-5**2)

Q4.select the correct output stored in R of the code
s="Welcometoalltoogood"

R=s.split("to")

   a) ['Welcome','alltoogood'] b) ('Welcome','to','allgood') c) ['Welcome','all','good'] d) ['Welcome','all','ogood']

Q5.what is degree and cardinality of table Practice which has 12 attributes and 8 records

   a) 8,12 b) 12, 8 c) 12, 12 d) 8,8

Q6. What type of network you can suggest if you are connecting your laptop with mobile to transfer files

   a) Pan b)lan c) man d)wan

Q7.which command is used to join/merge 2 dictionaries

   a) Insert b) merge c) update d) items()

Q8.predict the output s="Welcome@Click@Career"

print(s[2::3])

a) lmCcCe b) loeCikCre c) lcome@Click@Career d) lmCkrr

Q9.which of the following statement will report error

S="Boards2024TooEasy"

a)print(S) b) S[3]='e' c) S[::-2] d) print(S+"3")

Q10.

What is the possible output

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

X=random.randint(2,4)

for m in range(X):

   print(X[m])

   a) 10 20 30 40 50 b) 10 30 50 c) 10 20 30 40 d) none of the above

Q11.which network device is used for network security

   a) Gateway b) firewall c) modem d) router

Q12.

B=10

def showall(b=25):

   print(b+B)

showall(35)

a)35 b) error c) 60 d) 45

Q13.

One try can have multiple except block State True/False

Q14. Which of the following about keys in SQL is correct

    a) Primary key can be 2 or 3 b) candidate key can contain repetitive data c) alternate keys must be in different table d) foreign keys are used to join 2 tables

Q15.

Which switching technique is used to sent data in small pieces independently

    a) Circuit b) message c) packet d) independent

Q16. What is return type of readlines function a) int b) list c) tuple d) string

Q17 & 18assertion and reasoning a) A, R both are True R is correct explanation

b)A, R both are True R is not correct explanation c) A is True but R is False d) A is False but R is True

17 .. Assertion (A) : text files are human readable files R) binary files are human readable files

18.. Assertion (A): SQL is case sensitive R) we can type commands in SQL in any Case

Section –B (2mx7)

Q19. What is the full form of URL , VOIP

Q20. What is the advantage of Star topology over bus topology.

Q21 find the errors in the code

```
Def change(a)

   for x in range(len(a))

      s=s+x

   return s

print(change(17))
```

Q22 write a function that will return sum of all SHOW_LIST(L) that will store elements that are divisible by 3 in a list and return it.

Q23. Find the output of the code

```
def boards2024(a,b):

   s=' '

    for x in a:

       s=s+x

    s=s+"@"

    for y in b:

       s=s+y

    return s

print("Finally :",boards2024("hi","hello"))
```

Q24 write python statement to do the following a) add 100 at index 2 b) add 5 elements at the end of the list Q.

Q25 what is difference between DDL and DML in SQL

Q26.

Find the output

```
def change(Line):

    alpha=str()

    digi=str()

    for ch in line:

        if ch.isalpha():

            alpha+=ch.upper()

        else:

            digi+=ch

    print(alpha,digi)

change("WeLcome123@Done")
```

Q27. From the given CLUB table give the output of the following commands cid, cname, age,gender,sports, pay, doapp

4687	SHYAM	37	MALE	CRICKET	1300	2004-04-15
1245	MEENA	23	FEMALE	VOLLEYBALL	1000	2007-06-18
1622	AMRIT	28	MALE	KARATE	1000	2007-09-05
1256	AMINA	36	FEMALE	CHESS	1100	2003-08-15
1720	MANJU	33	FEMALE	KARATE	1250	2004-04-10
2321	VIRAT	35	MALE	CRICKET	1050	2005-04-30

i)select count(distinct gender) from club;

ii)select cname, gender from club where cname like "%T";

iii) select gender,sports,pay from club where gender="MALE" AND sports="KARATE";

Q28

Write a function countcapsmall() that will count of capital , count of small in the file "practice.txt"

Q29.

Consider the table Personal given below:

Table: Personal

P_ID	Name	Desig	Salary	Allowance
P01	Rohit	Manager	89000	4800

[10]

P02	Kashish	Clerk	NULL	1600
P03	Mahesh	Superviser	48000	NULL
P04	Salil	Clerk	31000	1900
P05	Ravina	Superviser	NULL	2100

i) Wac to count number of records from personal table

ii) Wac to display name, desig and total salary where total salary is calculated as "salary"+ "allowance".

iii) Wac to delete the records from table personal where desig is "Supervisor"

Q30 a List NData=[78,92,56,52,68,75] write a function push() that will push all the elements in stack having marks <70

Write a pop() function that will pop and display all elements from stack

Section –D(4mx2)

Q31

Table: PRODUCT

PCode	PName	UPrice	Rating	BID
P01	Shampoo	120	6	M03
P02	Toothpaste	54	8	M02
P03	Soap	25	7	M03
P04	Toothpaste	65	4	M04
P05	Soap	38	5	M05
P06	Shampoo	245	6	M05

i)Display product name and unit price from the tables PRODUCT where bid is m05

(ii) Display the structure of the table PRODUCT.

(iii) Display the average rating of Shampoo or toothpaste

(iv) Display the name, price, and rating of products in descending order of uprice.

Q32.

Write a function accept() that will add 1 product record in product.csv file product details include [pno,pnm,cost]

Write a function countrec() that will count and return count all products in csv file

Section-E (5mx3)

Q33

A company ABCL has 4 branches having 35,42,100, 45 computers in Network Buildings A,B,C,D

Distance between buildings are A→ B 50m, A→ C 100m

A→ D 120m, B→ C 60m, B→ D 90m, C→ D 170m

- I)   Suggest the cable layout and topology
- II)   Suggest the placement of server
- III)   Suggest the placement hub/switch in the given network
- IV)   Suggest the type of network if a new branch started at a distance of 32km
- V)   Suggest the communication media for fast communication

Q34. What is difference between r+, w+ in binary file

i)Write a function addrecords() to add 5 records in binary file country.dat the records include [cno, cnm, capnm,population]

ii)write a function showrecords() to display country records having population >100000

Q35. What is domain define

Write a python program to connect python with SQL to display all the records from sql table students having marks>90

Students table is in school database

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