

- 19) Write a program to count and display the number of digits and the number of alphabet in a string
 20) What is dictionary? Write a command to create a dictionary and delete an element from dictionary.
 21)

What will be the output of following code?
 tup1 = ("comp sc", "info practices", 2017, 2018)

```
tup2 = ( 5, 11, 22, 44, 9, 66)

print("tup1[0]:", tup1[0])

print("tup2[1:5]:", tup2[1:5])
```

- (22) Write the output of following:

```
list = ['I','N','D','I','A']
print(list[0:3])

print(list[3:])

print(list[:])

print(list[1:-2])
```

2.a Expand the following terms:

- i) UNICODE ii) ASCII iii) ISCHII

b. Convert following

- 1) $(10111001)_2 = ()_8$
 2) $(1234)_8 = ()_{16}$

e. Draw the logic circuit from the following expression $A'B + A'C$

f. Answer the following

- (i) Add binary numbers 111.01 and 111.01

3. a What is primary key?

b. Give example for degree and cardinality.

c. Answer the following questions.

TABLE : HOSPITAL

No.	Name	Age	Department	DatoFadm	Charges	Sex
1	Arpit	62	Surgery	21/01/98	300	M
2	Zareena	22	ENT	12/12/97	250	F
3	Kareem	32	Orthopedic	19/02/98	200	M
4	Arun	12	Surgery	11/01/98	300	M
5	Zubin	30	ENT	12/01/98	250	M
6	Ketaki	16	ENT	24/02/98	250	F
7	Ankita	29	Cardiology	20/02/98	800	F
8	Zareen	45	Gynecology	22/02/98	300	F
9	Kush	19	Cardiology	13/01/98	800	M
10	Shilpa	23	Nuclear Medicine	21/02/98	400	F

- (a) To list the names all the patients admitted after 15/01/98.
 (b) To list the names of female patients who are in ENT department.
 (c) To list names of all patients with their date of admission in ascending order.
 (d) To display Patient's Name, Charges, Age for only female patients.

(e) Find Out the Output of Following SQL Command:-

(i) Select COUNT(DISTINCT charges) from HOSPITAL;

(ii) Select MIN(Age) from HOSPITAL where Sex="F";

f. Define the following

(i) foreign key (ii) DBMS (iii) desc command

(v) Order by clause (vi) candidate key

4. Answer the following Questions:

a) are the rules for using social networking sites

b) Define eavesdropping and phishing .

c) What is cyber stalking? How it is done.

d) What are the tips to safely browse the internet.