CLASS - XI **COMPUTER SCIENCE WITH PYTHON PRACTICE QUESTIONS**

1) Name any two immutable data objects of Python.

2) Classify each of the following as a valid or invalid variable:

ii)%age iii)2nd innings a. i)Length iv)Half Yearly

3) Given that A=4, B=5, C=4, what will be the result of the following expressions: i) $A \le C$

ii)A<=B

4) What are syntax error?

5) What are variables? Give example.

6)Write the pseudo code that will take a number from the user 2 and print if it is positive,

negative or zero.

7)Rewrite the following program using for loop :

```
sum=0
i=1
while (i<=10):
sum=sum+i
i=i+1
print("sum=",sum)
```

8)Write a Python script to print Fibonacci series.

9)Identify the errors in the following code:

i. i. L1 = [1,2,3,5]	ii. L1 = [1,3,5,8]
An = L1.remove(7)	An = L1.remove(8)
	print(An + 2)

10)Suggest appropriate functions for the following tasks:

(i) To check whether the string contains digits

(ii) To capitalize all the letters of the string

(iii) To remove all white spaces from the beginning of a string.

(iv) To check whether all letters of the string are in capital letters.

11)Write a program, which consider a list and find the average of number entered through keyboard until enter '0', if number is Zero then it will quit. Finally displays list of numbers. 3 n)

t1=(1,)*3

t1[0]=2

print(t1), What is the output?

12)Write the steps to arrange the elements using insertion sort. 12,5,14,8,3,54,25,10,27,30

13)What will be the output

t2=(1,2,3)t3=(6,7) t4=t3+t2 t5=t2+t3 print(t4) print(t5)

14)Write a program to find factorial of a given number.

15)Write an appropriate for loop to be repeated 100 times, except the loop is to be terminated if the value of the variable p becomes 50.

16)Write a program to display the pattern

4321	A B C D E
432	A B C
43	A B
4	А

17)Write a program to input a number and test if it is a prime number or not. 3

18)Write program in python to find reverse of a number.

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)ISCII

b. Convert following

1) (10111001)2=()8

- 2) (1234)8=()16
- e. Draw the logic circuit from the following expression A'B+A'C $\,2$
- 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	м
2	Zareena	22	ENT	12/12/97	250	F
3	Kareem	32	Orthopedic	19/02/98	200	м
4	Arun	12	Surgery	11/01/98	300	м
5	Zubin	30	ENT	12/01/98	250	м
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	м
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.