CLASS – XI										
COMPUTER SCIENCE WITH PYTHON										
	TIME - 3 HOURS	[MAX. MARKS - 70]								
Gene	ral Instructions:									
i) All	questions are compulsory.									
ii) Ma	ii) Mark for each question is mentioned against it.									
iii) Pı	rogramming Language: PYTHON									
,	B									
a)	Who developed python Programming la	nguage and when?	1							
b)			1							
c)		•	2							
•,	•	ings iv)Half_Yearly	_							
d۱	d) Given that A=4, B=5, C=4, what will be the result of the following expressions:2									
,	i)A<=C ii)A<=B		0 1							
e)	What is error?		1							
f)	What are variables? Give example.		2							
g)	Write the pseudo code that will take a n	umber from the user 2	and print if it is positive,							
	negative or zero.		2							
h)	Rewrite the following program using for	r loop :	2							
	sum=0									
	i=1									
	while (i<=10):									
	sum=sum+i									
	i=i+1									
	<pre>print("sum=",sum)</pre>									
i)	Write a Python script to print Fibonacci	series.	3							
j)	Identify the errors in the following code	:	2							
	i. i. $L1 = [1,2,3,5]$	ii. L1 = [1,3,5,8]								
	An = L1.remove(7)	An = L1.remove(8)								
		print(An + 2)								
l) Sug	gest appropriate functions for the followi	ng tasks:	2							
	(i) To check whether the string contains	digits								
	(ii) To capitalize all the letters of the str									
	(iii) To remove all white spaces from the beginning of a string.									
	(iv) To check whether all letters of the s	-								
	rite a program, which consider a list and									
keyboard until enter '0', if number is Zero then it will quit. Finally displays list of numbers. 3										
n)	t1= (1,)*3									

t1[0]=2print(t1) , What is the output ? 1 o) What is the use of json package? p) Write the steps to arrange the elements using insertion sort. 12,5,14,8,3,54,25,10,27,30 2 q) What will be the output 2 t2=(1,2,3)

t3=(6,7)t4=t3+t2t5=t2+t3 print(t4) print(t5)

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

1

s) 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.

2.a Expand the following terms:

i) EPROM

ii)ASCII

b. What is application software? Name any two software.		
c. Convert following		
1) (10111001)2=()8		
2) (1234)8=()16		
d.Prove Distributive law using truth table.	2	
e. Draw the logic circuit from the following expression A'B+A'C 2		
f. Answer the following		
(i) Minimize the following A+(A.(B.C))		
(ii) Add binary numbers 111.01 and 111.01		
3. a What is primary key?		
b. Give example for degree and cardinality.	1	
c. What is the use of distinct in sql.		
d. Answer the following questions.	6	

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) (ii) Select MIN(Age) from HOSPITAL where Sex="F"; 			
f. Define the following (i)foreign key (ii) DBMS (iii)desc command (iv) group by clause (v)Order by clause (vi) candidate key	6		
 4. Answer the following Questions: a) What are the rules for using social networking sites b) What is Cracking? Suggest the ways to protect the computer from cyber attack. c) Define eavesdropping and phishing . d) What is cyber stalking? How it is done. e) What are the tips to safely browse the internet. 	2 2 2 2 2		