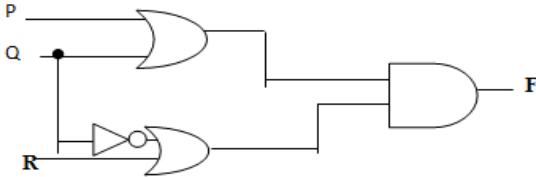


SAMPLE PAPER- II			
SUBJECT – COMPUTER SCIENCE (Python)			
CLASS- XI			
MAXIMUM MARKS: 70			TIME: 3 hours
GENERAL INSTRUCTIONS:			
1. Number of questions are 6.			
3. Answer the questions in sequence.			
4. Read the question carefully before attempting it.			
Q1	a)	Draw a flow chart and write pseudo code to find the greatest of 3 numbers.	2
	b)	Write pseudo code to Check if the number is positive or negative or zero and display an appropriate message.	2
	c)	write the output of the following: a) a,b=20,30 a = a+5 b=b+10 a,b= b,a print (a) print (b) b) print ("WELCOME\n","TO\n","PYTHON") c) Which of the following are invalid identifiers. a) 99flag b) As\$swer c) For d) While d) a=3 b=6 b+=a print (b)	4
	d)	Write logical expression for the following: 1) Name is riya and age is between 10 and 15 2) CITY is either ‘Delhi’ or ‘Mumbai’ but not ‘Kolkata’	2
	e)	Write the output of the following program on execution if x = 90,	2

		<pre> if x>60: if x>25: print ('ok') if x>90: print ("good") elif x>40: print ("average") else: print ("no output") </pre>	
Q2	a)	<p>Write the output of the following:</p> <pre> L=[] L1=[] L2=[] for i in range(6,10): L.append(i) for i in range(10,4,-2): L1.append(i) for i in range(len(L1)): L2.append(L[i]+L1[i]) L2.append(len(L)-len(L1)) print (L2) </pre>	2
	b)	<p>Suppose L=["Good",5,["students", "words"],'few'] Consider the above list and answer the following:</p> <ol style="list-style-type: none"> 1) L[2:] 2) L[2][1] 	1
	c)	<p>Write the output of the following:</p> <pre> L=['a','z','p','c','m'] L.remove('c') print (L) print (L.pop()) </pre>	1
	d)	<p>What will be the output of the following programming code?</p> <pre> str="My Python Programming" print (str[[-5:-1]]) print (str[1:5]) </pre>	1
	e)	<p>Consider the string str="Green Revolution". Write statements in python to implement the following:</p> <ol style="list-style-type: none"> i) To replace all the occurrences of letter 'a' in the string with "*" ii) To display the starting index for the substring 'vo'. iii) To remove 'Gre' from the left of the sting. 	5

		iv) To check whether string contains 'vol' or not. v) To repeat the string 3 times.	
	f)	What will be the output following python code, justify your answer. <pre> x = 5 y = 0 print ('A') try: print ('B') A = x/y print ('C') except ZeroDivisionError: print ('F') except : print ('D') finally: print ('over') </pre>	2
Q3	a)	What are docstrings? How are they useful?	2
	b)	WAP to accept a number, find and display whether it's a Armstrong number or not.	2
	c)	Write a program to generate the following series. <pre> 1 2 3 1 2 1 </pre>	2
	d)	Write a program to input numbers according to the user's choice and store it in a tuple and find maximum and minimum values in the tuple.	2
	e)	Write a program to input 'n' student and grade to store it in a dictionary and to input any name and to print the grade of that particular name.	3
Q4	a)	Write at least two points of differences between compiler and interpreter.	2
	b)	Fill the appropriate answer: a) 1024 ZB= b) 1024 KB=	1
	c)	Write short note on ASCII.	1
	d)	1. Convert decimal number (0.375) to its equivalent binary number. 2. Add 10001 to 11101	2
	e)	Verify the following using truth table: $X+Y.Z=(X+Y).(X+Z)$	2

	f)	Write the equivalent Boolean expression for the following logic circuit	2																																																			
																																																						
Q5	a)	What is an IP address?	1																																																			
	b)	What are the merits of social networking?	2																																																			
	c)	What is Cyber Trolling? Write down Medium/Ways of Trolling.	2																																																			
	d)	Name three data security concepts.	1																																																			
	e)	What is information technology security?	1																																																			
	f)	What do you mean by hacker?	1																																																			
	g)	What is the support being provided to web browser?	2																																																			
Q6	a)	What are SQL constraints? Define constraints NOT NULL and CHECK.	2																																																			
	b)	Consider the following tables CARDEN and CUSTOMER and answer (A) and (B) parts of question: TABLE: CARDEN <table><tr><th>Ccode</th><th>CarName</th><th>Make</th><th>Color</th><th>Capacity</th><th>Charges</th></tr><tr><td>501</td><td>A-Star</td><td>Suzuki</td><td>RED</td><td>3</td><td>14</td></tr><tr><td>503</td><td>Indigo</td><td>Tata</td><td>SILVER</td><td>3</td><td>12</td></tr><tr><td>502</td><td>Innova</td><td>Toyota</td><td>WHITE</td><td>7</td><td>15</td></tr><tr><td>509</td><td>SX4</td><td>Suzuki</td><td>SILVER</td><td>4</td><td>14</td></tr><tr><td>510</td><td>C Class</td><td>Mercedes</td><td>RED</td><td>4</td><td>35</td></tr></table> TABLE: CUSTOMER <table><tr><th>CCode</th><th>Cname</th><th>Ccode</th></tr><tr><td>1001</td><td>HemantSahu</td><td>501</td></tr><tr><td>1002</td><td>Raj Lal</td><td>509</td></tr><tr><td>1002</td><td>Feroza Shah</td><td>503</td></tr><tr><td>1004</td><td>Ketan Dhal</td><td>502</td></tr></table> (A) Write SQL commands for the following statements: (i) To display the names of all the silver colored Cars.	Ccode	CarName	Make	Color	Capacity	Charges	501	A-Star	Suzuki	RED	3	14	503	Indigo	Tata	SILVER	3	12	502	Innova	Toyota	WHITE	7	15	509	SX4	Suzuki	SILVER	4	14	510	C Class	Mercedes	RED	4	35	CCode	Cname	Ccode	1001	HemantSahu	501	1002	Raj Lal	509	1002	Feroza Shah	503	1004	Ketan Dhal	502	6
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		<p>(ii) To display name of car, make and capacity of cars in descending order of their sitting capacity.</p> <p>(iii) To display the highest charges at which a vehicle can be hired from CARDEN.</p> <p>(iv) To display the customer name and the corresponding name of the cars hired by them.</p> <p>(B) Give the output of the following SQL queries:</p> <p>(i) SELECT COUNT(DISTINCT Make) FROM CARDEN;</p> <p>(ii) SELECT MAX(Charges),MIN(Charges) FROM CARDEN;</p> <p>(iii) SELECT COUNT(*),Make FROM CARDEN;</p> <p>(iv) SELECT CarName FROM CARDEN WHERE Capacity=4;</p>	
	c)	What is meant by the term NoSQL?	1
	d)	What is relation? What is the difference between a tuple and an attribute?	1
	e)	What is Data integrity?	1
	f)	Define FOREIGN Key.	1
	g)	What is the difference between DDL and DML command?	2
	h)	What is relation? What is the difference between a tuple and an attribute?	1