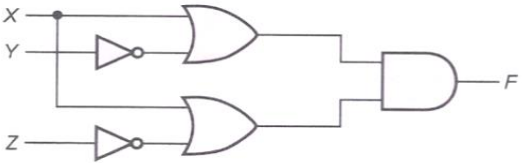


SAMPLE PAPER - I			
SUBJECT – COMPUTER SCIENCE (Python)			
CLASS- XI			
MAXIMUM MARKS: 70		TIME:3 hours	
GENERAL INSTRUCTIONS:			
1. Number of questions are 6.			
3. Answer the questions in sequence.			
4. Read the question carefully before attempting it.			
Q1	a)	Draw a flowchart for finding the sum of n numbers.	2
	b)	Write pseudo code to accept length and breadth and calculate Area and Perimeter of a rectangle and display.	2
	c)	Write the output of the following: 1) p,q,r=2,3,4 r,q,p = p+2,q-2,r+2 print (p,q,r) 2) x=3 x+=x-x print (x) 3) X="hello world" Y=2.3 Print (type(X)) print (type(Y)) 4) Which of the following are invalid identifiers? a) Myfile b) _abc c) 29ctc d) Break	(1X4=4)
	d)	Give the output of the following python statements. y=5 for l in range(1,3): for j in range(0,i): z=i+j-1 if (z%2)==0: y=y+z elif (z%3)==0: y=y+z-2 print ("y=",y)	2
	e)	Give the output of the following python statements.	2

		<pre> L=list("data") X="" count = 1 for i in L: if i in ["a","e","i","o","u"]: X=X+i.swapcase() else: if (count%2) !=0: X=X+str(len(L[:count])) else: X=X+i count=count+1 print (X) print (count) </pre>	
Q2	a)	<p>Write the output of the following:</p> <pre> L=[10,20,30,40] L1=[500,600] L2=[35,45] L1.extend(L2) L.insert(25,2) print (L1+L2) print (L1) print (L.index(30)) print (L2*2) </pre>	2
	b)	<p>Suppose L=["These",10,["count", "few"],'words']</p> <p>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 python statement and the output for the following:</p> <ol style="list-style-type: none"> 1) Find the second occurrence of 'm' in 'madam'. 2) To replace 'o' with '*' in word 'hello'. 3) To remove 'h' from word 'hectic'. 4) To break the string 'Revolution' into 3 parts taking 'l' as separator. 5) Change the case of each letter in string 'ScHoOl'. 6) Whether 'S' exists in string 'Schedule' or not. 	6
	d)	<p>Find the output of the following.</p> <pre> T1=(10,20,30,40,50) T2=(100,200,300) T1,T2=T2,T1 </pre>	1

		1) min(T1) 2) max(T2)	
	e)	<p>What will be the output of the following python code? Explain the try and except used in the code.</p> <pre> A=0 B=6 print ('One') try: print ('Two') X=8/A print('Three') except ZeroDivisionError: print (B*2) print ('Four') except: print (B*3) </pre>	2
Q3	a)	Write different ways of writing comments in a program? Give Example also.	1
	b)	Write the difference between break and continue statements.	1
	c)	Write a program to find and display prime numbers below 50.	2
	d)	Write a program to Input a string and check whether it is palindrome or not?	2
	e)	WAP to remove duplicate items from a list and display.	2
	f)	Write a program to input 'n' name and phone numbers to store it in a dictionary and to input any name and to print the phone number of that particular name.	3
Q4	a)	Two devices used by the supermarket point-of-sale (POS) terminal are a barcode reader and a keyboard. Name two other input/output devices used at the POS and give a use for each device.	1
	b)	What is cloud computing?	1
	c)	1. Convert $(10110.0101)_2$ into decimal number. 2. Convert $(325)_{10}$ into octal number. 3. Add 101101 to 11001	3
	d)	Define De Morgan's Theorem with the help of truth table.	2
	e)	<p>Write the equivalent Boolean Expression for the following Logic Circuit :</p> 	2

	f)	Write short note on ISCII.	1																																																				
Q5	a)	What are the privacy and security features being provided by web browsers?	2																																																				
	b)	What is the purpose of web browser?	1																																																				
	c)	Why do people troll?	1																																																				
	d)	What is Social Media? Name few sites.	1																																																				
	e)	Write down name of any three-social networking site.	1																																																				
	f)	Which of the following crime(s) is/are covered under cyber-crime? a) Stealing brand new hard disk from a shop. b) Getting into unknown person's social networking account and start messaging on his behalf. c) Copying some important data from a computer without taking permission from the owner of the data.	1																																																				
	g)	What is Cyber stalking?	1																																																				
	h)	What are the demerits of social networking?	2																																																				
Q6	a)	Give a suitable example of a table with sample data and illustrate Primary and Alternate Keys in it.	2																																																				
	b)	Consider the following tables STOCK and DEALERS and write the queries from i) to iv) and output of v) to viii). Table: STOCK <table><tr><th>ItemNo</th><th>Item</th><th>Dcode</th><th>Qty</th><th>UnitPrice</th><th>StockDate</th></tr><tr><td>5005</td><td>Ball Pen 0.5</td><td>102</td><td>100</td><td>16</td><td>31-Mar-10</td></tr><tr><td>5003</td><td>Ball Pen 0.25</td><td>102</td><td>150</td><td>20</td><td>01-Jan-10</td></tr><tr><td>5002</td><td>Gel Pen Premium</td><td>101</td><td>125</td><td>14</td><td>14-Feb-10</td></tr><tr><td>5006</td><td>Gel Pen Classic</td><td>101</td><td>200</td><td>22</td><td>01-Jan-09</td></tr><tr><td>5001</td><td>Eraser Small</td><td>102</td><td>210</td><td>5</td><td>19-Mar-09</td></tr><tr><td>5004</td><td>Eraser Big</td><td>102</td><td>60</td><td>10</td><td>12-Dec-09</td></tr><tr><td>5009</td><td>Sharpener Classic</td><td>103</td><td>160</td><td>8</td><td>23-Jan-09</td></tr></table> Table: DEALERS <table><tr><th>Dcode</th><th>Dname</th></tr><tr><td>101</td><td>Reliable Stationers</td></tr></table>	ItemNo	Item	Dcode	Qty	UnitPrice	StockDate	5005	Ball Pen 0.5	102	100	16	31-Mar-10	5003	Ball Pen 0.25	102	150	20	01-Jan-10	5002	Gel Pen Premium	101	125	14	14-Feb-10	5006	Gel Pen Classic	101	200	22	01-Jan-09	5001	Eraser Small	102	210	5	19-Mar-09	5004	Eraser Big	102	60	10	12-Dec-09	5009	Sharpener Classic	103	160	8	23-Jan-09	Dcode	Dname	101	Reliable Stationers	6
ItemNo	Item	Dcode	Qty	UnitPrice	StockDate																																																		
5005	Ball Pen 0.5	102	100	16	31-Mar-10																																																		
5003	Ball Pen 0.25	102	150	20	01-Jan-10																																																		
5002	Gel Pen Premium	101	125	14	14-Feb-10																																																		
5006	Gel Pen Classic	101	200	22	01-Jan-09																																																		
5001	Eraser Small	102	210	5	19-Mar-09																																																		
5004	Eraser Big	102	60	10	12-Dec-09																																																		
5009	Sharpener Classic	103	160	8	23-Jan-09																																																		
Dcode	Dname																																																						
101	Reliable Stationers																																																						

	103	Classic Plastics	
	102	Clear Deals	
	<p>Write SQL commands for the following statements:</p> <p>i) To display details of all Items in the Stock table in ascending order of StockDate.</p> <p>ii) To display ItemNo and Item name of those items from Stock table whose UnitPrice is more than Rupees 10.</p> <p>iii) To display the details of those items whose dealer code (Dcode) is 102 or Quantity in Stock (Qty) is more than 100 from the table Stock.</p> <p>iv) To display Maximum UnitPrice of items for each dealer individually as per Dcode from the table Stock.</p> <p>v) SELECT COUNT(DISTINCT Dcode) FROM Stock;</p> <p>vi) SELECT Qty*UnitPrice FROM Stock WHERE ItemNo=5006;</p> <p>vii) SELECT Item, Dname FROM Stock S, Dealers D WHERE S.Dcode=D.Dcode AND ItemNo=5004;</p> <p>viii) SELECT MIN(StockDate) FROM Stock;</p>		
c)	What is NULL value?		1
d)	What is Data integrity?		1
e)	Differentiate between DROP and DELETE command.		2
f)	What is MongoDB?		1
g)	What are SQL constraints? Define constraints DEFAULT and UNIQUE.		2