Series ISWK P1

083/1/1

Code No.

SET-1

Roll No.				Candidates must write the Code on the title page of the answer-book.

General Instructions:

- 1. This question paper contains two parts A and B. Each part is compulsory.
- 2. Both Part A and Part B have choices.
- 3. Part-A has 2 sections:
- a. Section I is short answer questions, to be answered in one word or one line.
- b. Section II has two case studies questions. Each case study has 4 case-based subparts. An examinee is to attempt any 4 out of the 5 subparts.
- 4. Part B is Descriptive Paper.
- 5. Part- B has three sections
- a. Section-I is short answer questions of 2 marks each in which two question have internal options.
- b. Section-II is long answer questions of 3 marks each in which two questions have internal options.
- c. Section-III is very long answer questions of 5 marks each in which one question has internal option.
- 6. All programming questions are to be answered using Python Language only.

COMPUTER SCIENCE

Time allowed: 3 hours

Maximum Marks:

70

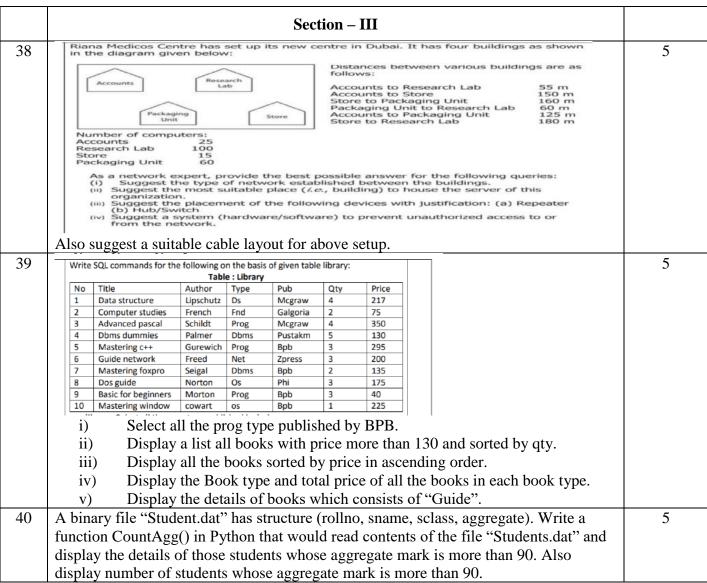
Qn	Part A	Marks
No.		Allocated
	Section-I	
	Select the most appropriate option out of the options given for each question. Attempt any 15 questions from question no 1 to 21.	
1	Which of the following is an assignment operator?	1
	i. **=	
	ii. =+	
	iii. !=	
	iv. %	
2	Write the type of tokens from the following.	1
	i. +	
	ii. for	
3	Name the python library module which is to be imported to invoke the following	1
	functions.	
	i. fabs()	

	ii. randrange()	
4	Rewrite the following python code after removing all syntax error(s). Underline the corrections done. def circlearea() r=input('Enter the radius:') a=pi*math.pow(r,2) print("AREA="+a)	1
5	Find the output of the following code: T1=(10,30,15,9,25,12) s=1 t=100 for k in range(s, len(tup)): t=t+T1[k] print(T1[k],"\$",t) print(t)	1
6	Write the Full Form of FIFO.	1
7	Identify the odd one out in Python from the following. a) IF b) else c) while d) elif	1
8	Expand: HTML	1
9	Write any two date and time functions.	1
10	Write a statement in Python to create a dictionary ICC with "INDIA", "ENGLAND", "AUSTRALIA" as keys and "VIRAT", "MORGAN" and "FINCH" as values.	1
11	What do you mean by throughput?	1
12	Given the tuple SalaryList = (5025,4985,3990,4150,3735,6390,1750) write the output of the following code: print(SalaryList[4:]) print(MarkList[-5:])	1
13	What is the output of the following statement: SELECT NULL + 20, 30 + 0;	1
14	Find the valid identifier(s) from the following a) Weight# b) ELSE c) for d) Cat1	1
15	What will be the output of the following code? Points= (12,5,10,8,7,3,15,2,20,2,5,12,10,8,7) print (Points.index(10))	1
16	Write any two string functions used in SQL with examples.	1
17	Which of the following is a DDL command? a) INSERT b) DELETE c) DELETE d) DROP	1
18	Define: Cybercrime.	1
19	What is the date format in MySQL?	1
20	What will be the output of the following code? >>>math.ceil(11.85) >>>math.sqrt(225)	1
21	Expand: XML	1

			Sect	ion-Il						
	Both the Case study base	d question	is are	comp	oulsory.					
22	Consider the following tab					4				
	Table : EMPLOYEE									
	ENO NAME DOJ	DOB	GENDER	DCODE						
	1001 George K 2013-09-02	1991-09-01	MALE	D01						
	1002 Ryma Sen 2012-12-11	1990-12-15	FEMALE	D03						
	1003 Mohitesh 2013-02-03	1987-09-04	MALE	D05						
	1007 Anil Jha 2014-01-17	1984-10-19	MALE	D04						
	1004 Manila Sahai 2012-12-09		FEMALE	D01						
	1005 R SAHAY 2013-11-18		MALE	D02						
	1006 Jaya Priya 2014-06-09	1985-06-23	FEMALE	D05						
	Identify candidate keys from the above table.									
	What is the degree and cardinality of the above table after adding 3 rows and removing									
	1 column?									
		e table for l	ENO:	: 1015	, NAME : JOHNSON and DOJ :					
	22/May/2005									
	Remove the column DCOI	DE from th	e tabl	e.						
	Find output of the following	_	EN (DI	OME	E WHEDE DOODE DI					
	SELECT NAME, GENDE									
22	('D01','D02','D05') AND	DOR LIK	E "%	-09-%)´	4				
23	import #Line1			C* 1		4				
	F=open("cust.csv",) #Line2	to ope	en file	for read operation					
	dt = writer(f)									
	while True:	G : 137								
	sno= int(input("Enter			"						
	cust_name = input("E		mer na	ame:")						
	city = input("Enter cit	•								
	amt = int(input("Enter			. 35						
	dt.writerow([sno, cust		•	t])						
	print("Record has bee	,		TITO	11115					
	print("Want to add mo	ore record	?Type	YES!	!!")					
	ch = input()									
	ch = ch.upper()									
	if ch=="YES":	sta sta sta sta sta sta sta sta s	la sla sla sla sla	ale ale IIX						
	print("*******	****	****	**")						
	else:									
	break									
	F #Line3 to close the file									
	record = list()									
	with open('cust.csv',) as f: #Line4 to open file for read operation data = csv(f) #Line5 to setup reader operation									
		#Line:	o to se	tup re	ader operation					
	for row in data:									
	record.append(row)									
	Fill in the blank in Line1									
	Fill in the blank in Line2									
	Fill in the blank in Line3									

	Fill in the blank in Line4	
	Fill in the blank in Line5	
	Part – B	
	Section – I	
24	What possible output(s) are expected to be displayed on screen at the time of execution of the program from the following code? Also specify the minimum values that can be assigned to each of the variables Low and High import random Num = [5,10,15,20,25,30,35,40,45,50] Low=random.randint(2,4) High=random.randint(Low,6) For J in range (Low, High+1): print(Num[J],"*") (i) 20*25*30* (ii) 20*25*30*35* (iii) 25*30*35*40* (iv) 25*30*35*40*45*	2
25	Explain about domain and views in dbms.	2
26	Expand the following terms: a. POP b. PPP c. GPRS d. WAN	2
27	Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code. Num = input("Number:") Sum = 0 for i in range(10,Num,3) Sum+=i if i%2=0: print (i*2) Else: print (i*3 print Sum)	2
28	Write a short note on worms and phishing.	2
29	What is the use of rowcount variable in python mysql connectivity.	2
30	Find and write the output of the following Python code: def makenew(mystr): newstr = "" count = 0 for i in mystr: if count%2 != 0: newstr = newstr + str(count) else: if i.islower(): newstr = newstr + i.upper() else: newstr = newstr + i count += 1 newstr = newstr + mystr[:1] print("The new string is:", newstr)	2

	makenew("sTUdeNT")								
31	Explain about function with default argument in python.								
32	Evaluate the following expressions:								
	a) 20 * 5 ** 2 + (10 - 3) b) 70 > 25 and 20 > 45 or 30 < 50								
33	<u> </u>					2			
	Explain tr	ie check constra	int in mysql with ex	хатріе.					
			Section						
34				are based on the fol	llowing tables,	3			
		IERS and PURC	CHASES:						
	CUSTOM		CATTO	7					
	CNO	CNAME	CITY						
	C1	SANYAM	DELHI						
	C2	SHRUTI	DELHI						
	C3	MAHER	MUMBAI						
	C4	SAKSHI	CHENNAI	_					
	C5	RITESH	INDORE						
	C6	RAHUL	DELHI						
	C7	AMEER	CHENNAI						
	C8	MINAKSHI	BANGALORE						
	C9 ANSHUL MUMBAI								
	PURCHA	SES							
	SNO	QTY	PUR_DATE	CNO					
	S 1	15	2018-11-25	C2					
	S2	10	2018-11-10	C1					
	S3	12	2018-11-10	C4					
	S4	7	1019-01-12	C7					
	S5	11	2019-02-12	C2					
	S6	10	2018-10-12	C6					
	S7	5	2019-05-09	C8					
	S8	20	2019-05-09	C3					
	S 9	8	2018-05-09	C9					
	S10	15	2018-11-12	C5					
	S11	6	2018-08-04	C7					
	i)SELECT MAX(CITY) FROM CUSTOMERS;								
	/	, —	ATE) FROM PUR	•					
			· —	FROM CUSTOMER	, , , , , , , , , , , , , , , , , , ,				
			CNO=PURCHASE	.CNO AND CITY I	N ('MUMBAI',				
	"CHENN								
35				y), where Array is a (- -	3			
26				value deleted from		2			
36			· ·		character of a text file	3			
			i and display the oc	ccurrence of vowels	(A or IVI - including				
27	small cases too). Write a python method/function SumEven(M, N) to find and display the sum of all								
37			nction SumEven(Notetween the range N	· · ·	nay the sum of all	3			
	even num	bers which are c	etween the range N	allu IV.					



All the Best