KENDRIYA VIDYALAYA SANGATHAN, TINSUKIA REGION PRE-BOARD I (2022 - 23)

Class: XII

Subject: COMPUTER SCIENCE (083)(Theory)

Max Marks: 70

Time:3hrs

MARKING SCHEME

Question No.	SECTIO	N – A ·ks)	
1	(d) error		1
2	(a)1*3		
3	(c) None		1
4	(b) False		1
5	(a)['Question paper ', '0', '', '-	', '3']	1
6	(c) w+		1
7	(b) DELETE		1
8	(c) USE SCHOOL;		1
9	(a)[1,2]		
10	(a) PRIMARY, CANDIDATE		1
11	(b) It returns the byte position of the file pointer as an integer.		1
12	(b) 2		1
13	(b) POP-POST OFFICE PROTOCOL		1
14	(c) (10)		1
15	(b) multiple row functions		1
16	(d) username, password, hostname, database name		1
17	(a)Both A and R are true and R is the correct explanation for A		1
18	(c)A is True but R is False		1
	SECTION B (2 Marks)		
19	<pre>Value = 30 for VAL in range(0,Value) : if val%4==0: print (VAL*4) elif val%5==0: print (VAL+3) else: print(VAL+10)</pre>	<pre># Error 1 # Error 2 # Error 3 # Error 4</pre>	2
20	BUS TOPOLOGY	STAR TOPOLOGY	2
	Bus topology is a topology where each device is connected to a single cable which is known as the backbone.	Star topology is a topology in which all devices are connected to a central hub	
	In a Bus topology, the failure of the network cable will cause the whole network to fail.	In star topology, if the central hub fails then the whole network fails.	
	In a bus topology, there is a linear arrangement of nodes in a network.	In star topology, there is a non-linear arrangement of nodes in a network.	
		OR	

	DOMAIN OF COMPARISON	CIRCUIT SWITCHI	NG	PACKET SWITCHING	
	Definition	Transmission of data is through a physically ma circuit between the sourc the target.	done apped ce and	Data is transmitted in the form of segments called data packets through dynamic channels of data transmission.	
	Data processing	Transmitted data is demon and processed at the receiv through hardware.	dulated ver end	The data is processed at the source before transmission as well as at the nodes and receiver end during transmission and post completion respectively.	
	Flexibility	The route of data transmis predefined and is rigi	ssion is d.	As there is no fixed route of data transmission hence there is flexibility in transmitting packets through different channels as per traffic or other constraints.	
	Utility	Finds maximum usage in over or telephonic communication.	voice-	It has wide utility in the field of data transmission over networks.	
21	(a) h dWTop(b) dict_items([('model)	onth', 'JANUARY'), ('exam	ı', 'PRE	BOARD1'), ('EXAM', 'PRE2')])	2
22	(CHAR		VARCHAR	2
	CHAR datatype is strings of fixed ler	used to store character agth	VAR string	CHAR datatype is used to store character as of variable length	
	In CHAR, If the le than set or fixed-le with extra memory	ength of the string is less ength then it is padded y space.	In VA than t withc	ARCHAR, If the length of the string is less the set or fixed-length then it will store as it is out padded with extra memory spaces.	
	CHAR stands for '	"Character"	VAR	CHAR stands for "Variable Character"	
	Storage size of CH to n bytes i.e. set h	IAR datatypes is equal ength	The s equal bytes	torage size of the VARCHAR datatype is to the actual length of the entered string in	
	We should use the we expect the data of the same length	CHAR datatype when values in a column are	We sl expec lengtl	hould use the VARCHAR datatype when we of the data values in a column are of variable h.	
	CHAR takes 1 byt	e for each character	VAR	CHAR takes 1 byte for each character and extra bytes for holding length information	
	Better performanc	e than VARCHAR	Perfo	rmance is not good as compared to CHAR	
23	POP-Post Office Pro HTTPS-HyperText 7	tocol Fransfer Protocol Secure			2
	OR A URL (Uniform Resource Locator) is a unique identifier used to locate a resource on the Internet. It is also referred to as a web address. URLs consist of multiple parts - including a protocol and domain name that tell a web browser how and where to retrieve a resource				
24	[4,6,7,1,6,9,4] [4, 7, 7, 1, 7, 9, 4]				2
	[4, 7, 7, 1, 7, 9, 4] (18, 36, 54)		OR		

25	Where Clause in SQL	Having Clause in SQL	2		
	Filter table based data catering to specific	Group based data under set condition			
	condition				
	Applicable without GROUP BY clause	Does not function without GROUP BY clause			
	Row functions	Column functions			
	Select, update and delete statements	Only select statement			
	Applied before GROUP BY clause	Used after GROUP BY clause			
	Used with single row operations such as	Applicable with multiple row functions such as			
	Upper, Lower and so on	Sum, count and so on			
	OR				
	COUNT(*) will count all the rows in the table including NULL values. On the other hand				
	COUNT(column name) will count all the rows	in the specified column while excluding NULL values.			
		I I I I I I I I I I I I I I I I I I I			
		SECTION C			
		(3 Marks)			
26			1.0		
26	(a) ALTER TABLE PRODUCT ADD TO	TAL PRICE NUMBER (10,2).	1+2		
	(b)				
	VICE PRINCIPAL 01				
	(ii)				
	16				
	(iii)				
	UMESH				
	YASH RAJ				
	(iv)				
	5 MALE				
	2 FEMALE				
27	(a)		3		
	<pre>fname = "python.txt"</pre>				
	num_words = 0				
	f= open(fname, 'r')				
	words = f.read().split()				
	for a in words:				
	if (a.tolower() == "to" or a	a.tolower() == "the"):			
	num_words = num_word	s + 1			
	<pre>print("Number of words:", num_words)</pre>				
	I.CLOSE()				
	OR				
	(D)				
	fin=open ("python.txt", "r")	"			
	iw=open("python1.txt","w	")			
	for a in rec:				
	if $(a \text{ isdigit}() - \pi ruc)$.				
	$\frac{11}{(a.1301y10() := 1100)}$				
	$f_{W} write(a)$				
	$\frac{1}{2} \frac{1}{2} \frac{1}$				
	$f_{\rm W} = c \log(t)$				
L			1		

28	(a) SELECT NAME FROM TEACHER WHERE NAME LIKE "0%";	1+2
	and % are the wildcards for pattern matching.	
	(b) i.	
	3 DELHI	
	1 MADKAS	
	;; 50000 70000	
	ii. 50000,70000	
	MOBILE MUMBAI 70000	
	MOBILE MUMBAI 25000	
29	def EVEN LIST(L) ·	3
29		5
	evenList=[]	
	for i in L:	
	if i%2==0:	
	<pre>evenList.append(i)</pre>	
	return(evenList)	
30	def DISH(S):	3
50	for i in I.	3
	1f 1%2! =U:	
	S.append(1)	
	return(S)	
	def POP ():	
	num=len(S)	
	<pre>while len(S)!=0:</pre>	
	dele=S.pop()	
	print(dele)	
	num=num-1	
	else:	
	print("empty")	
	OR	
	def Push(Bitem):	
	<pre>for i,j in Bitem.items():</pre>	
	if i<50.	
	S append(i)	
	SECTION D	
	SECTION-D	
01		-
31	(1) admin; it contains the max number of systems, to reduce traffic	5
	ENGINEERING	
	ADMIN	
	(MEDIA)	
	(iii)firewall	
	(iv) (c) Video Conferencing	
	(v) POP and SMTP	
32	(a) ['and \mathbf{x}' .'u will!']	5
52	(h)	
	(U)	
	Import mysqr.connector as pymysqr #statement 1	
	abcon=pymysql.connect(nost="localnost",user="root",passwd="sia@1928",	
	aatabase='SCNOOL') # statement 2	
	<pre>if abcon.isconnected() == False:</pre>	1
	<pre>print("Error in establishing connection:")</pre>	1
1	cur=dbcon.cursor() # statement 3	1

```
query="select * from stmaster"
      cur.execute(query)
                                                 # statement 4
      resultset=cur.fetchmany(3)
      for row in resultset:
              print(row)
      dbcon.close()
                                                 # statement 5
                                          OR
      (a)hELL1&EeEeryoE
      (b)
      Statement 1: con1.cursor()
      Statement 2: mycursor.execute("select * from student where Marks>75")
      Statement 3: mycursor.fetchall()
33
      Advantage of a csv file:
                                                                                     5
            It is human readable - can be opened in Excel and Notepad applications
            It is just like text file
         •
      Program:
      import csv
      def ADD():
          fout=open("record.csv","a",newline="\n")
          wr=csv.writer(fout)
          empid=int(input("Enter Employee id :: "))
          name=input("Enter name :: ")
          mobile=int(input("Enter mobile number :: "))
          lst=[empid,name,mobile] -----1/2 mark
          wr.writerow(lst) -----1/2 mark
          fout.close()
      def COUNTR():
          fin=open("record.csv", "r", newline="\n")
          data=csv.reader(fin)
          d=list(data)
          print(len(d))
          fin.close()
      ADD()
      COUNTR()
                                            OR
      Binary file:
         •
            Extension is .dat
            Not human readable
            Stores data in the form of 0s and 1s
      CSV file
           Extension is .csv
           Human readable
           Stores data like a text file
         •
      Program:
      import csv
      def add():
          fout=open("furdata.csv","a",newline='\n')
          wr=csv.writer(fout)
          fid=int(input("Enter Furniture Id :: "))
          fname=input("Enter Furniture name :: ")
          fprice=int(input("Enter price :: "))
          FD=[fid,fname,fprice]
          wr.writerow(FD)
          fout.close()
      def search():
          fin=open("furdata.csv", "r", newline='\n')
          data=csv.reader(fin)
          found=False
```

pri	.nt("The Details are")		
for	: i in data:		
	if int(i[2])>10000:		
	found=True		
	print(i[0],i[1],i[2])		
if	found==False:		
	print("Record not found")		
fin.	fin.close()		
add()			
print("No	print("Now displaying")		
search()			
	SECTION-E(4 marks)	0	
34 impo	ort csv	4	
f=or	pen("pl.csv","w")		
Cw=0	csv.writer(f)		
ch='	יציי		
whil	Le ch=="Y":		
	1=[]		
	<pre>pi=int(input("enter dvd id "))</pre>		
	pnm=input("enter dvd name ")		
	<pre>sp=int(input("enter qty "))</pre>		
	<pre>p=int(input("enter price(in rupees) "))</pre>		
	l.append(pi)		
	l.append(pnm)		
	l.append(sp)		
	l.append(p)		
	cw.writerow(l)		
	ch=input("do you want to enter more rec(Y/N): ").upper()		
	if ch=="Y":		
	continue		
	else:		
	break		
f.c.	Lose()		
f=or	pen("pl.csv","r+")		
cw=]	<pre>List(csv.reader(f))</pre>		
for	i in cw:		
	if 1[3]>25:		
	print(i)		
f.c.	Lose ()		
35 1. SELE	ECT TEACHERNAME, PERIODS FROM SCHOOL WHERE PERIODS>25:	4	
2. SELH	ECT * FROM SCHOOL;		
3. SELH	ECT DISTINCT DESIGNATION FROM ADMIN;		
4. SELH	ECT TEACHERNAME.CODE DESIGNATION FROM SCHOOL.CODE = ADMIN.CODE		
WHERE	GENDER = MALE;		