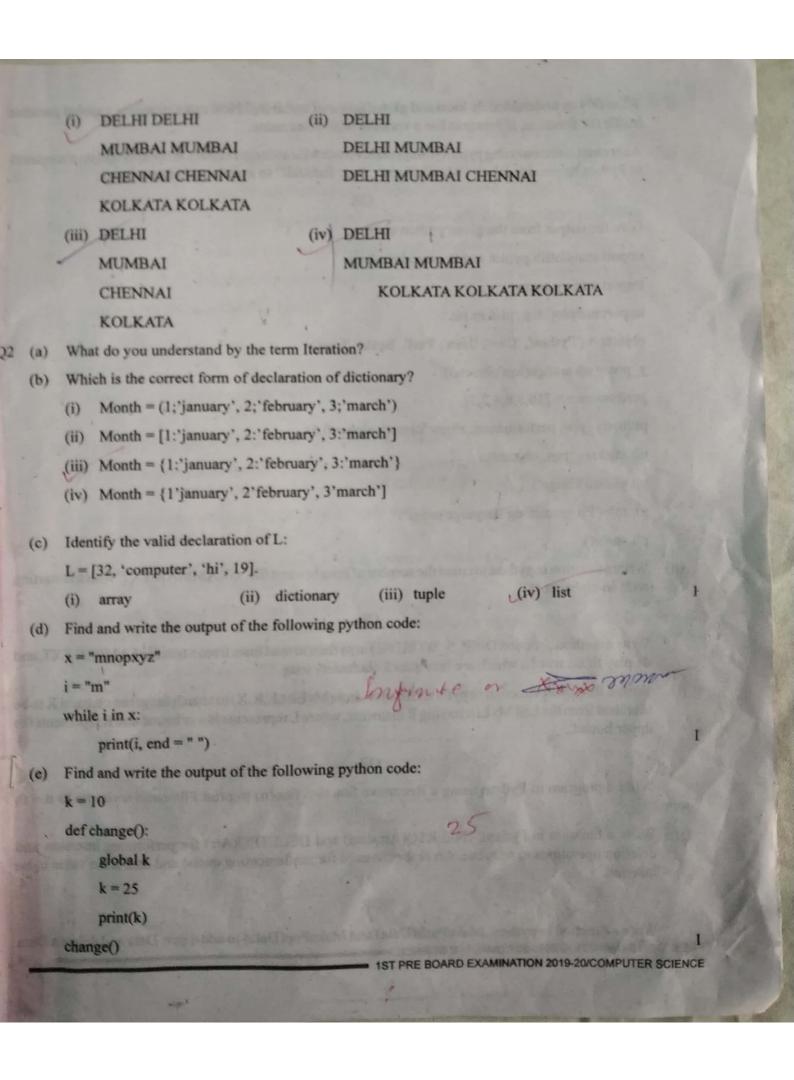
Class: X			D EXAM	(hapen)		019-2 Time allowe Maximum	a rationi
General	Instructions:		•	(marriel [ile ni	(Z	19.5
• All	questions are co	mpulsory.			1	1	1
• Qu	estion paper is d	ivided into 4 se	ctions A, B, C and	D	W 181		1.4
Sec	ction A: Unit-1				(m)thirty	., 4	The second
Sec	tion B: Unit-2	6 1 May 3	en saasily		event2 arcom)	Sense!	10,776 4
Sec	tion C: Unit-3	10 Mg.	യു തൃദ്ദാന ഗൂർം;	4	• (dist.
Sec	tion D: Unit-4		500.5 0000000 200		May To	//	
1	1		SECTION	IA "		9.46	
Q1 (a)	Which of the fo	ollowing is valid	d logical operator	in Python:		4 67	
	(i) //	(ii) ?	(iii) <	(iv) and	(0.549)	inita.	1000
(b)	Write the type	of tokens from	the following:			rotor	
	(i) for	(ii) Age			06	u a	min plant
(c)	Name the Pyth	on Library mod	lules which need to	be imported t	to invoke the fo	ollowing fun	ctions:
	(i) cos()	(ii) ran	ndint ()		vR.S)	ginan 2	
1						w". Mancia	
(d)	And the second		python after remov	ving all syntax		agned Lee	
		correction don	e in the code. os no beginning of o	of hataurya as	7		de l
ared to th	30=Max for N in range	nisimun values	he may buum and n	Also specify 1	Howing code?	thent the 'f	
7	IF n%3=	=0:			dom	importrau	
	prin	t (N*3)		10.1	Machael mobil	m 2/2/14.	
	Else:	T. VA	NNAP TOLKA	MENT CHI	ing in ing		
	print	t (N+3)				12.64	2
(e)	Find and write	the output of th	e following pythor	code:	NO 1) Paguna ni	1 1	
	def fun(s): x = len(s)				princip end-	dneg	

```
for i in range(0,x):
                   if s[i].islower():
                        m += s[i].upper()
                   elif s[i].isalpha():
                        m += s[i].lower()
                   else:
                        m += 'bb'
                                           EXAM 66 66 COM
                   print(m)
              fun('exam2@com')
        Find and write the output of the following python code:
   (f)
         def Change(P,Q=20):
              P=P+Q
              Q=P-Q
              print( P,"#",Q)
              return (P)
              R = 150
         S = 100
         R=Change(R,S)
         print(R,"#",S)
         S=Change(S)
         What possible outputs(s) are expected to be displayed on screen at the time of execution of the program
         from the following code? Also specify the maximum and minimum values that can be assigned to the
         variable PICK.
         import random
         PICK = random.randint(0,3)
         CITY = ["DELHI", "MUMBAI", "CHENNAI", "KOLKATA"]
         for I in CITY:
              for J in range(1, PICK):
                   print(I, end=" ")
              print()
3T PRE BOARD EXAMINATION 2019-20/COMPUTER SCIENCE
```



		er de	over can you acc	cess a global variable
(f)	What do you understand by local and glob inside the function, if function has a variant Abar chart is drawn (using pyplot) to represent in Python to provide labels "Months" and	nal scope of variable	ne. ragerainfall. Write a	propriate statements
(g)	inside the function, if function has a variable inside the function has a variable in the function has a variable in the function has a variable in the function of the function has a variable in the function of the function has a variable in the function of the function has a variable in the function of the function has a variable in the function of the function of the function of the function of the function has a variable in the function of the fu	d "Avg. Rainfall" to	x and y axis respe	Kork
		OK	MANAGEMENT	H LIG (III)
	Give the output from the given python co	ode: d (vi)	IAL	MUMI
	import matplotlib.pyplot as plt; plt.rcdefa	aults()		MEND .
1	import numpy as np (A 10) A 1A 2 10	M. T		KOLK
			advertigional	novot fod v
	import matplotlib.pyplot as plt objects = ('Python', 'C++', 'Java', 'Perl', 'S	Scala, Lisp Ji mas	correct form of dec	Which is the
	y_pos = np.arange(len(objects))		(It January , 21 fe	
	performance = [10,8,6,4,2,1]	Monant (F., Visinos)	a C Transi II	(ii) Mohits
	performance = [10,8,6,4,2,1] plt.bar(y_pos, performance, align='center)	r, alpha-0.5)	11: January , 2: 16	(Ne Month-
	plt.xticks(y_pos, objects)	Andrews President of the Control of the	(1'jantury, 2'fen	The state of the s
	plt.ylabel('Usage')	The same of the sa		
	plt.title('Programming language usage')		Honor miss 64	of all difficult 2
	plt.show() Write a function in python to count the num	1 flings in a tex	tfile GRAMMAR	TXT'which is starting
(h)	Write a function in python to count the numerical with an alphabet 'K'.	iii) vianoijeii	(ii)	vana (1) 2
AL IL	William urp	OR or anivoite	the output of the fi	d) Find and write
	Write a method/function DISP_5_WOR	DS() in python to re n 5 characters long	ad lines from a text f	ile SAMPLE.TXT, and
(i)	Write a Recursive function in python Bir searched from the List MyList having R	nary Search (My List	,L,R,X) to search the epresents lower bou	nd and R represents the
	searched from the List My List Having 15 upper bound.		a. ("" = br	ro imig
	de la companya de la	OR National	the output of the fo	arrest base on 1 (A)
	Write a program in Python using a Rec	cursive function fil	o(n) to print Fibon	acci series up to n - t
teri	m.	ALL STATES		der change (3
(0)	Write a function in Python, INSERTQ deletion operations in a Queue. Arr is the	(Arr,data) and DE ne list used for imp	LETEQ(Arr) for pe lementing queue an	d data is the value to b
W	inserted.			k=25
		OR .		(Andigo
	Write a function in python, MakePush(Data) and MakePo	o(Data) to add a nev	y Data and delete a Dat
T PRE E	BOARD EXAMINATION 2019-20/COMPUTER SCIENCE	A 1St of the second sec	Annual Comment of the	Transport of the second

from a List of Data, considering them to act as push and pop operations of the Stack data structure.

SECTION B

03	Questions	3 (a) t	03	(c):	Fill i	in the	blanks
V	Angonione	- (-)	The Colombia	· /	production of the last		CONTRACTOR CONTRACTOR CONTRACTOR

- Latro ax is a device that connects dissimilar networks. 1
- is a computer on the network, dedicated to processing client requests. (b)
- is a device that forwards data packets along networks. (c) Acounty of a communication channel. 1 (d)
- Give the full forms of the following
 - POP .

- (ii) SCP
- work and nATTH c(vi): for efficiently connecCloVa(iii)
- What is the significance of protocols in networks? (f) 2
- Identify the type of cyber crime for the following situations: (g)
 - (i) Rahul complains that Rs. 2.5 lacs have been fraudulently stolen from his account online via some online transactions in two days using NET BANKING. Bank Theft froud
 - Sujal complains that his debit card is safe with him still some body has done ATM transaction Identity Thest on this card.
 - (iii) Kritika complains that somebody has created a fake profile on Twitter and defaming her character with abusive posts and pictures. Cybers talking
- Ayurveda Training Educational Institute is setting up its center in Hyderabad with four specialized departments for Orthopedics, Neurology and Pediatrics along with an administrative office in separate buildings. The physical distances between these department buildings and the number of computers to be installed in these departments and administrative office are given as follows.

You, as a network expert, have to answer the queries as raised by them in (i) to (iv).

Number of Computers

Pediatrics Unit	40	Differentiate activees Per
Administrative Office	140	III I IID 14100 OMHUU 15010
Neurology	50	
Orthopedics Unit	80	Following netweet De

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Which elause is used to consider at

Shortest distances between various Blocks in meters:

ices between	
Administrative Office to Orthopedics Unit	55 m
Administrative Office to Office And a	30 m 1 . (□) €.
Neurology Unit to Administrative Office	70 m
Orthopedics Unit to Neurology Unit	50 m
Pediatrics Unit to Neurology Unit	40 m
Pediatrics Unit to Administrative Office	110 m
Pediatrics Unit to Orthopedics Unit	3/

ion, a List of Dam, considering

- Suggest the most suitable location to install the main server of this institution to get efficient connectivity with a suitable reason.
- Suggest the best cable layout for effective network connectivity of the building having server with all the other buildings.
- (iii) Suggest the topology of the network and network cable for efficiently connecting each computer installed in each of the buildings out of the following:

Topologies: Bus Topology, Star Topology

Network Cable: Single Pair Telephone Cable, Coaxial Cable, Ethernet Cable.

(iv) Suggest the devices to be installed in each of these buildings for connecting computers installed within the building out of the following : N griev - ab and at a contract and no Sujet complains that his debit cord is safe with him stell some

(iii) Kritika compleins that somehody has created a fake profile on iv

character with all usive posts and pictures

Acurveda Training Educational In

- Modem
- Switch.

(a) What is the default sort order of ORDER BY clause?

- Which clause is used to combine all the records of a table that have identical values in a particular (b) field? 1
- Which command is used to modify the records of the table? (c)
- Which clause is used to consider all values including duplicate values of the table? (d)
- Differentiate between Primary key and Candidate key. (e)

OR

Differentiate between Degree and Cardinality.

- Differentiate between Django GET and POST method.
- Write a output for SQL queries (i) to (iii), which are based on the table: CLUB given below:

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1

COACH_ ID	COACHNAME	AGE	SPORTS	DATOFAPP	PAY and and	SEX
1 5	KUKREJA	35	KARATE	1006 02 07		- 14
2	RAVINA	34		1996-03-27	1000	M
3	KARAN		KARATE	1998-01-20	1200	F
4	TARUN	34	SQUASH	1998-02-19	2000	M
5		33	BASKETBALL	1998-01-01	1500	M'
3	ZUBIN	36	SWIMMING	1998-01-12	750	M
(-10.6) Jac	KETAKI	17/36	SWIMMING	1998-02-24		101
3117/01 8	ANKITA	39	SQUASH		800	F
8	ZAREEN	37		1998-02-20	2200	F
. 9	KUSH		KARATE	1998-02-22	1100	F
10	SHAILYA	ir 141-13	SWIMMING	1998-01-13	900	M
	BLIAILIA	37.	BASKETBALL	1998-02-19	1700	M

- SELECT SPORTS, COUNT(*) FROM CLUB GROUP BY SPORTS;
- SELECT AVG(PAY) FROM CLUB WHERE SPORTS = "SQUASH";
- SELECT COACHNAME, SEX FROM CLUB WHERE SPORTS = "SWIMMING";
- Write SQL queries for (i) to (iv), which are based on the table: CLUB given in the question 4(g): 4 (h)
 - To display the records from table CLUB in alphabetical order as per the name of the Coach. ii.
 - To display COACHNAME, DATEOFAPP and SPORTS whose PAY is between 1000 and 2000. iii.
 - To display SPORTS and total number of coaches who have PAY more than 1500, SPORT wise
 - To increase PAY of all coaches by 100 whose SPORTS is "SWIMMING"

SECTION D

- What is Online Fraud?
 - As a citizen of India, What advise you should give to others for e-waste disposal?
 - (c) Write any two ways to avoid identity theft.
 - From: Internal Revenue Service [mailto:admin@irs.gov]

Sent: Wednesday, March 01, 2006 12:45 PM

To:john.doe@jdoe.com

Subject: IRS Notification - Please Read This

After the last annual calculations of your fiscal activity we have determined that you are elligible for a

Please submit the tax refund request and allow us 6-9 days in order to process it.

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XX	Arefund can be delayed for a variety of reasons. For example submitting invalid records or applying aft the deadline.
M-	TOOL IN THE PROPERTY OF THE PARTY OF THE PAR
4	002 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
W.	To access the form for your tax refund, please click here
M	# 1 1/2 PR 1 PR
10	John received a mail form IRS department (as shown above). On clicking "Click-Here", he w
3	taken to a site designed to imitate an official-looking website, such as IRS gov. He infloaded sor
· I. ,	important information on it.
M	Identify and explain the cyber crime being discussed in the above scenario.
(e)	Differentiate between Shareware and Open Source Software.
(f)	Enumerate any two disability issues while teaching and using computers.
. ` `	7 77 73 15 1.7 C. V.
	(iii) SELECT COACHNANT, SEX PROM CLUB WILLSE SPORTS - "SWINIMING"
On M. mar	Cun Sping Clark and Control of the C
	(b) Write SQL queries for (i) to (iv), which are based on the table: CLUB given in the question
	To firstly the records from table CLUB in alphabetical order as per the table 2 of the
us bas	in display COACHNAVIE, DATEOFAPI and SPUBLE, whose PAY is between 1000
	iff. To display SPORTS and total number of coaches who liste PAY more than 1500. Si
	To increase PAY of all coaches by 100 whose SPORTS is "HWIMMING"
	SECTION D
	5 (a) What is Chine Fraud
. 7	(b) As a citizen of incla. What advise you should give to others for e-value disposul?
	th) As a chizer of India. What edvise you should give unablers for e-walve disposul?
	(d) From Internal revenue Service (number admired in gavier)
	Sent: Wecnesday March 01, 2006 (2.43 PM)
A	in a second control of the second control of
•	Subject: IKS Verification - Phase Read 3 .js.
	the second of th
okolok	And the last annual calculations of your final actaging the hove delenated that on one alls
â	(ay retin: 1 of 5 93.60
	Figure 1 and the tax retund request and all on us 6 - 9 days is cider to processit.
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6	