J P KHUNTIA

Ans. (i) // (1 mark for correct answer)  (b) Write the type of tokens from the following: (i) if (ii) roll_no  Ans. (i) // (t) Keyword (ii) Identifier  Ans. (1/2 mark for each correct type)  (c) Name the Python Library modules which need to be imported to invoke the following functions: (i) sint) (ii) randint ()  Ans. (1/2 mark for each module)  Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code. 30=To for Kin range(0,To)  IFK%4==0:     print (K* 4)     Else:     print (K* 3)  (1/2 mark for each correction)  (e) Find and write the output of the following python code:     def fun(s):         k=len(s)  m=""     for i in range(0,k): if(s[i].isupper()):         m=m+s[i].lower()     elf s[j].isalpha():         m=m+bb' print(m)     fun(school2@com)  Ans. SCHOOLbbbbCOM (2 marksfor correct output) Note: Partial marking can also be given		SECTION-A						
Ans.  (i) // (t mark for correct answer)  (b) Write the type of tokens from the following: (i) if (ii) roll_no  (i) Keyword (ii) Identifier (1/1 2 mark for each correct type)  (c) Name the Python Library modules which need to be imported to invoke the following functions: (i) sin() (ii) randint ()  Ans. (1) math (ii) random (1/1 2 mark for each module)  (d) Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code. 30=T0 for Kin range(0,To) IFk%4=0: print (K*4) Else: print (K*5)  (1/1 2 mark for each correction)  (e) Find and write the output of the following python code: def fun(s): k=len(s)  m="" for i in range(0,k): if(s[i].supper()): m=m+s[i].lower() elfs s[i].salpha(): m=m+bb' print(m) fun(school2@com)  Ans. SCHOOLbbbbCOM (2 marksfor correct output) Note: Partial marking can also be given  (f) Find and write the output of the following python code: def	Q1.	(a)	Which of the following is valid arithmetic operator in Python:	1				
(1 mark for correct answer)  (b) Write the type of tokens from the following: (i) if (ii) roll_no  Ans. (i) Keyword (ii) Identifier (1/2 mark for each correct type)  Name the Python Library modules which need to be imported to invoke the following functions: (i) sin() (ii) randint ()  (i) math (ii) random (1/2 mark for each module)  (d) Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code. 30=To for Kin range(0,To) IFk%-4=0:     print (K'-4)     Else:     print (K+3)  Ans.  Ans.  10=30 for Kin range(0,To):     if k%-4=0:     print (K-4)     else:     print (K-3) (1/2 mark for each correction)  (e) Find and write the output of the following python code:     def fun(s):         k=len(s)  m="" for i in range(0,k): if(s[i].isupper()):         m=m+s[i].lower()         elif s[i].isalpha():         m=m+s[i].lower()         elif s[i].isalpha():         m=m+s[i].upper()         else:         m=m+bb' print(m)         fun(school2@com')  Ans. SCHOOLbbbbCOM (2 marksfor correct output) Note: Partial marking can also be given  (f) Find and write the output of the following python code: def								
(b) (i) if (ii) roll_no  Ans. (i) Keyword (ii) Identifier (1/ 2 mark for each correct type)  Name the Python Library modules which need to be imported to invoke the following functions: (i) sin() (ii) randint ()  Ans. (i) Mark (ii) random (if 2 mark for each module)  (d) Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code. 30=T0 for Kin range(0,T0) IFk%4==0:     print (K* 4)     Else:     print (K* 4)     else:         print (K* 3) (1/ 2 mark for each correction)  (e) Find and write the output of the following python code:     def fun(s):         k=len(s)  m="" for in range(0,k): if(s[i].isupper()):         m=m+s[i].upper()         else:         m=m+bb' print(m)         fun(school2@com')  Ans. SCHOOLbbbbCOM (2 marksfor correct output) Note: Partial marking can also be given  (f) Find and write the output of the following python code: def		Ans.						
Ans.  (i) Keyword (ii) Identifier (1/2 mark for each correct type)  Name the Python Library modules which need to be imported to invoke the following functions: (i) sin() (ii) randint ()  Ans. (i) math (ii) random (1/2 mark for each module)  Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code. 30=T0 for Kin range(0,T0) IFk%4=0:     print (K* 4)     Else:     print (K* 4)     Else:     print (K* 4)     else:     print (K* 4)     else:     print (K* 3) (1/2 mark for each correction)  (e) Find and write the output of the following python code:     def fun(s):         k=len(s)  m=""" for i in range(0,k): if(s[i].isupper()):         m=m+s[i].upper()     else:         m=m+s[i].upper()     else:         m=m+bb' print(m)         fun(school2@com')  Ans. SCHOOLbbbbCOM (2 marksfor correct output) Note: Partial marking can also be given  (f) Find and write the output of the following python code: def		/b)	,	1				
Ans. (1/ 2 mark for each correct type)  Name the Python Library modules which need to be imported to invoke the following functions: (i) sin() (ii) randint ()  Ans. (i) math (ii) random (1/ 2 mark for each module)  Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code. 30=T0 for Kin range(0,To) IFk%4==0: print (K* 4) Else: print (K* 9)  (1/ 2 mark for each correction)  (e) Find and write the output of the following python code: def fun(s): k=len(s)  m="" for i in range(0,k): if(s[i].isupper()): m=m+s[i].lower() elif s[i].isalpha(): m=m+s[i].upper() else: m=m+bb' print(m) fun('school2@com')  Ans. SCHOOLbbbbCOM (2 marksfor correct output) Note: Partial marking can also be given  (f) Find and write the output of the following python code: def		(D)		1				
Columns functions: (i) sin() (ii) randimt () (ii) math (ii) random (1/2 mark for each module)		Ans.						
(i) sin() (ii) randint ()  Ans. (1/2 mark for each module)  Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code. 30=To for Kin range(0,To)   Fk%.4==0:		(c)		1				
Ans. (1/2 mark for each module)  Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code.  30=To for Kin range(0,To) IFk%4==0: print (K*4) Else: print (K*4) else: print (K*3)  1/1 2 mark for each correction)  (e) Find and write the output of the following python code: def fun(s): k=len(s)  m="" for i in range(0,k): if(s[i].isupper()): m=m+s[i].lower() else: m=m+bb' print(m) fun(school2@com)  Ans. SCHOOLbbbbCOM (2 marksfor correct output) Note: Partial marking can also be given  (f) Find and write the output of the following python code: def								
Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code. 30=To for Kin range(0,To)   IFk%4==0:		Ans.						
30=To for Kin range(0,To) IFK%4==0:     print (K* 4) Else:     print (K+3)  Ans.  To=30 for Kin range(0,To):     if k%4=0:     print (K* 4)     else:     print (K* 4)     else:     print (K* 3)  (1/ 2 mark for each correction)  (e) Find and write the output of the following python code:     def fun(s):         k=len(s)  m="" for i in range(0,k): if(s[i].isupper()):     m=m+s[i].lower()     elif s[i].isalpha():     m=m+s[i].upper()     else:     m=m+bb' print(m)     fun(school2@com')  Ans. SCHOOLbbbbCOM     (2 marksfor correct output)     Note: Partial marking can also be given  (f) Find and write the output of the following python code: def		(4)	Rewrite the following code in python after removing all syntax error(s).	2				
for Kin range(0,To)  IFk%4==0:		(u)						
print (K* 4) Else: print (K+3)  Ans. To=30 for kin range(0.To):  if k%4=0: print (K* 4) else: print (K+3) (1/ 2 mark for each correction)  (e) Find and write the output of the following python code: def fun(s): k=len(s)  m="" for i in range(0,k): if(s[i].isupper()): m=m+s[i].lower() elif s[i].isalpha(): m=m+s[i].upper() else: m=m+bb' print(m) fun('school2@com')  Ans. SCHOOLbbbbCOM (2 marksfor correct output) Note: Partial marking can also be given  (f) Find and write the output of the following python code: def			for Kin range(0,To)					
Else: print (K+3)  Ans. To=30 for kin range(0.To):if k%4=0:print (K* 4)else:print (K+3)  (1/ 2 mark for each correction)  (e) Find and write the output of the following python code:def fun(s):k=len(s) m=" "for i in range(0,k): if(s[i].isupper()):m=m+s[i].lower()elif s[i].isalpha():m=m+s[i].upper()else:m=m+'bb' print(m)fun('school2@com')  Ans. SCHOOLbbbbCOM(2 marksfor correct output)Note: Partial marking can also be given  (f) Find and write the output of the following python code: def								
Ans. To=30 for Kin range(0,To):     if k%4=0:     print (K* 4)     else:     print (K+3)     (1/2 mark for each correction)  (e) Find and write the output of the following python code:     def fun(s):         k=len(s)  m="" for i in range(0,k): if(s[i].isupper()):     m=m+s[i].lower()     elif s[ij.isalpha():     m=m+s[i].upper()     else:     m=m+'bb' print(m)     fun('school2@com')  Ans. SCHOOLbbbbCOM     (2 marksfor correct output)     Note: Partial marking can also be given  (f) Find and write the output of the following python code: def			Else:					
Ans.  for Kin range(0,To):  if k%4=0: print (K* 4) else: print (K+3) (1/2 mark for each correction)  (e) Find and write the output of the following python code: def fun(s): k=len(s)  m=" " for i in range(0,k): if(s[i].isupper()): m=m+s[i].lower() elif s[i].isalpha(): m=m+s[i].upper() else: m=m+'bb' print(m) fun('school2@com')  Ans. SCHOOLbbbbCOM (2 marksfor correct output) Note: Partial marking can also be given  (f) Find and write the output of the following python code: def		_						
print (K* 4)  else: print (K+3) (1/ 2 mark for each correction)  (e) Find and write the output of the following python code: def fun(s):		Ans.	for Kin range(0,To):					
else:     print (K+3) (1/ 2 mark for each correction)  (e) Find and write the output of the following python code:     def fun(s):         k=len(s)          m=" "         for i in range(0,k): if(s[i].isupper()):         m=m+s[i].lower()         elif s[i].isalpha():         m=m+s[i].upper()         else:         m=m+'bb' print(m)         fun('school2@com')  Ans. SCHOOLbbbbCOM         (2 marksfor correct output)         Note: Partial marking can also be given  (f) Find and write the output of the following python code: def								
(1/ 2 mark for each correction)  (e) Find and write the output of the following python code:     def fun(s):         k=len(s)  m=" "     for i in range(0,k): if(s[i].isupper()):     m=m+s[i].lower()     elif s[i].isalpha():     m=m+s[i].upper()     else:     m=m+'bb' print(m)     fun('school2@com')  Ans. SCHOOLbbbbCOM     (2 marksfor correct output)     Note: Partial marking can also be given  (f) Find and write the output of the following python code: def			else:					
(e) Find and write the output of the following python code:  def fun(s):			. ,					
k=len(s)  m=" "  for i in range(0,k): if(s[i].isupper()):  m=m+s[i].lower()  elif s[i].isalpha():  m=m+s[i].upper()  else:  m=m+'bb' print(m)  fun('school2@com')  Ans. SCHOOLbbbbCOM  (2 marksfor correct output)  Note: Partial marking can also be given  (f) Find and write the output of the following python code: def		(e)	Find and write the output of the following python code:	2				
m=" "  for i in range(0,k): if(s[i].isupper()):  m=m+s[i].lower()  elif s[i].isalpha():  m=m+s[i].upper()  else:  m=m+'bb' print(m)  fun('school2@com')  Ans. SCHOOLbbbbCOM  (2 marksfor correct output)  Note: Partial marking can also be given  (f) Find and write the output of the following python code: def								
for i in range(0,k): if(s[i].isupper()):  m=m+s[i].lower()  elif s[i].isalpha():  m=m+s[i].upper()  else:  m=m+'bb' print(m)  fun('school2@com')  Ans. SCHOOLbbbbCOM  (2 marksfor correct output)  Note: Partial marking can also be given  (f) Find and write the output of the following python code: def								
m=m+s[i].lower() elif s[i].isalpha(): m=m+s[i].upper() else: m=m+'bb' print(m) fun('school2@com')  Ans. SCHOOLbbbbCOM (2 marksfor correct output) Note: Partial marking can also be given  (f) Find and write the output of the following python code: def			m=" "					
elif s[i].isalpha():  m=m+s[i].upper()  else:  m=m+'bb' print(m)  fun('school2@com')  Ans. SCHOOLbbbbCOM  (2 marksfor correct output)  Note: Partial marking can also be given  (f) Find and write the output of the following python code: def			for i in range(0,k): if(s[i].isupper()):					
m=m+s[i].upper() else: m=m+'bb' print(m) fun('school2@com')  Ans. SCHOOLbbbbCOM (2 marksfor correct output) Note: Partial marking can also be given  (f) Find and write the output of the following python code: def			m=m+s[i].lower()					
else:  m=m+'bb' print(m)  fun('school2@com')  Ans. SCHOOLbbbbCOM  (2 marksfor correct output)  Note: Partial marking can also be given  (f) Find and write the output of the following python code: def			elif s[i].isalpha():					
m=m+'bb' print(m) fun('school2@com')  Ans. SCHOOLbbbbCOM (2 marksfor correct output) Note: Partial marking can also be given  (f) Find and write the output of the following python code: def			m=m+s[i].upper()					
fun('school2@com')  Ans. SCHOOLbbbbCOM (2 marksfor correct output)  Note: Partial marking can also be given  (f) Find and write the output of the following python code: def			else:					
Ans. SCHOOLbbbbCOM (2 marksfor correct output) Note: Partial marking can also be given  (f) Find and write the output of the following python code: def			m=m+'bb' print(m)					
(2 marksfor correct output)  Note: Partial marking can also be given  (f) Find and write the output of the following python code: def			fun('school2@com')					
Note: Partial marking can also be given  (f) Find and write the output of the following python code: def		Ans.	SCHOOLbbbCOM					
(f) Find and write the output of the following python code: def			(2 marksfor correct output)					
			Note: Partial marking can also be given					
Change(P,Q=30):		(f)	Find and write the output of the following python code: def	3				
			Change(P,Q=30):					
P=P+Q Q=P-Q			P=P+Q Q=P-Q					
print( P,"#",Q) return (P)			print( P,"#",Q) return (P)					
R=150 S=100			R=150 S=100					

		R=Change(R,S) print(R,"#",S) S=Change(S)	
	Ans.	250 # 150 250 # 100	
		130 # 100	
		(1 mark each for correct line)	
	(g)	What possible outputs(s) are expected to be displayed on	2
		screen at the time of execution of the program from the	
		following code? Also specify the maximum values that	
		can be assigned to each of the variables FROM and TO.	
		import random AR=[20,30,40,50,60,70];	
		FROM=random.randint(1,3) TO=random.randint(2,4) for	
		Kin range(FROM,TO+1):	
		print (AR[K],end="#")	
		(i) 10#40#70# (ii) 30#40#50#	
		(iii) 50#60#70# (iv) 40#50#70#	
	Ans.	(ii) 30#40#50# Maximum value FROM,TO is 3,4) (1/2	
		mark each for maximum value)	
		(1 mark for correct option)	
Q2.	(a)	What do you understand by the term Iteration?	1
	As	Repeatation of statement/ s finite number of times is	
		known as Iteration.	
		(1 mark for correct answer)	
	(b)	Which is the correct form of declaration of dictionary?	1
		(i) Day={1:'monday',2:'tuesday',3:'wednesday'} (ii) Day=(1;'monday',2;'tuesday',3;'wednesday') (iii) Day=[1:'monday',2:'tuesday',3:'wednesday'] (iv) Day={1'monday',2'tuesday',3'wednesday']	
	Ans.	(i) Day={1:'monday',2:'tuesday',3:'wednesday'}	
		(1 mark for correct answer)	
	(c)	Identify the valid declaration of L:	1
		L= [1, 23, 'hi', 6].	
		(i) list (ii) dictionary (iii) array (iv) tuple	

Ans.	(i) List	
	(1 mark for correct answer)	
(d)	Find and write the output of the following python code:	1
	x = "abcdef" i = "a"	
	while i in x:	
	print(i, end = " ")	
Ans.	aaaaaa ORinfinite loop	
	(1 mark for correct answer)	
(e)	Find and write the output of the following python code:	1
	a=10	
	def call():	
	global a a=15 b=20	
	print(a) call()	
Ans.	15	
	(1 mark for correct answer)	
(f)	What do you understand by local and global scope of	2
	variables? How can you access a global variable inside	
	the function, if function has a variable with same name.	
Ans.	A global variable is a variable that is accessible globally. A	
	local variable is one that is only accessible to the current	
	scope, such as temporary variables used in a single	
	function definition.	
	A variable declared outside of the function or in global	
	scope is known as global variable. This means, global	
	variable can be accessed inside or outside of the function	
	where as local variable can be used only inside of the	
	function. We can access by declaring variable as global A.	
	(1 mark for correct difference) (1 mark for explanation)	_
(g)	A bar chart is drawn(using pyplot) to represent sales data	2
	of various models of cars, for a month. Write appropriate	
	statements in Python to provide labels Month - June and	
	Sale done to x and y axis respectively.  OR	
	Give the output from the given python code:	
	import matplotlib.pyplot as plt; plt.rcdefaults() import numpy	
	as np	

	import matplotlib.pyplot as plt	
	objects = ('Python', 'C++', 'Java', 'Perl', 'Scala', 'Lisp') y_pos	
	= np.arange(len(objects))	
	performance = [10,8,6,4,2,1]	
	plt.bar(y_pos, performance, align='center', alpha=0.5)	
	plt.xticks(y_pos, objects)	
	plt.ylabel('Usage') plt.title('Programming language usage')	
	plt.show()	
Ans.	import matplotlib.pyplot as plt import numpy as np	
	model=('i20','Grandi10','Creta','Eon','Verna','Tucson','Elant	
	ra') y_pos=np.arange(len(model))	
	sale=[12369,12174,9390,4663,4077,3712,200,150]	
	plt.bar(y_pos,sale,align='center',alpha=0.5)	
	plt.xticks(y_pos,model)	
	plt.xlabel('Month-June') plt.ylabel('Sale done')	
	plt.title('Sales Bar Graph')	
	plt.show()	
	Programming language usage  ? mark for  Python C++ Java Perl Scala Usp	
	(2 marksfor correct output)	
(h)	Write a function in python to count the number of lines in a	2
	text file 'STORY.TXT'	
	which is starting with an alphabet 'A'.	
	OR	
	Write a method/ function DISPLAYWORDS() in python to	
	read lines from a text file STORY.TXT, and display those	
	words, which are less than 4 characters.	
Ans.	def COUNTLINES():	
	file=open('STORY.TXT,'r') lines = file.readlines() count=0	
	for w in lines:	
	if w[0]=="A" or w[0]=="a": count=count+1	
	print("Total lines ",count) file.close()	

	(½Mark for opening the file)	
	(½Mark for reading all lines, and using loop) (½Mark for	
	checking condition)	
	(½Mark for printing lines)	
	OR	
	def DISPLAYWORDS():	
	c=0 file=open('STORY.TXT','r')	
	line = file.read()	
	word = line.split() for w in word:	
	if len(w)<4: print( w)	
	file.close()	
	(½Mark for opening the file)	
	(½Mark for reading line and/ or splitting) (½Mark for	
	checking condition)	
	(½Mark for printing word)	
(i)	Write a Recursive function in python	3
	BinarySearch(Arr,I,R,X) to search the given element X to	
	be searched from the List Arr having R elements where I	
	represents lower bound and Rrepresents upper bound.	
	OR	
	Write a Recursive function recurfactorial(n) in python to	
	calculate and return the factorial of number n passed to	
	the parameter.	
Ans.	def BinarySearch (Arr,I,R,X):	
	if R>=1:	
	mid = I + (R-I)/2  if  Arr[mid] == X:	
	return mid elif Arr[mid] > X:	
	return BinarySearch(Arr,I,mid-1,X) else:	
	return BinarySearch(Arr,mid+1,r,X)	
	else:	
	return -1	
	Arr = [2, 3, 4, 10, 40]	
	X=int(input(' enter element to be searched')) result =	
	BinarySearch(Arr,0,len(Arr)-1,X)	
	if result != -1:	
	print ("Element is present at index ", result) else:	
	print ("Element is not present in array")	

	(1/2 mark for mid)	
	(1/2 mark for return mid)	
	(1 mark each for returningfunction) (1 mark for invoking	
	function)	
	OR	
	def recurfactorial(n):	
	if n == 1:	
	return n else:	
	return n*recurfactorial(n-1) num = int(input("Enter a	
	number: ")) if num < 0:	
	print("Sorry, factorial does not exist for negative numbers")	
	elif num == 0:	
	print("The factorial of 0 is 1") else:	
	print("The factorial of",num,"is",recurfactorial(num))	
	(2 marksfor correct recursive function) (1 mark for	
	invoking)	
(j)	Write a function in Python, INSERTQ(Arr,data) and	4
	DELETEQ(Arr) for performing insertion and deletion	
	operations in a Queue. Arr is the list used for	
	implementing queue and data is the value to be inserted.	
	OR	
	Write a function in python, MakePush(Package) and	
	MakePop(Package) to add a new Package and delete a	
	Package from a List of Package Description, considering	
	them to act as push and pop operations of the Stack data	
	structure.	
Ans.	def INSERTQ(Arr):	
	data=int(input("enter data to be inserted: "))	
	Arr.append(data)	
	def DELETEQ(Arr): if (Arr==[]):	
	print( "Queue empty") else:	
	print ("Deleted element is: ",Arr[0]) del(Arr[0])	
	(½mark insert header)	
	(½mark for accepting a value from user) (½mark for	
	adding value in list)	
	(½mark for delete header)	
	(½mark for checking empty list condition)	

		(1/2mark for displaying "Queue empty")	
		(½mark for displaying the value to be deleted) (½mark for	
		deleting value from list)	
		OR	
		def MakePush(Package):	
		a=int(input("enter package title : ")) Package.append(a)	
		def MakePop(Package): if (Package==[]):	
		print( "Stack empty") else:	
		print ("Deleted element:",Package.pop())	
		(½mark for MakePush() header)	
		(½mark for accepting a value from user) (½mark for	
		adding value in list)	
		(½mark for MakePop() header)	
		(½mark for checking empty list condition) (½mark for	
		displaying "Stack empty")	
		(½mark for displaying the value to be deleted) (½mark for	
		deleting value from list)	
		SECTION-B	
Q.3		Questions 3 (a) to 3 (c): Fill in the blanks	
	(a)	is an example of Public cloud.	1
	Ans.	Google Drive or any other correct example	
		(1 mark for correct answer)	
	(b)	is a network of physical objects embedded with electronics, software, sensors and network connectivity.	1
	Ans.	The internet of things OR Internet	
		(1 mark for correct answer)	
	(c)	is a device that forwards data packets along networks.	1
	Ans.	Router	
		(1 mark for correct answer)	
	(d)	describes the maximum data transfer rate of a network or Internet connection.	1
	Ans.	Band width	
		(1 mark for correct answer)	
	(e)	Give the full forms of the following	2
		(i) HTTP	
		(ii) FTP	
		(iii) VoIP	
		(iv) SSH	Щ
	An	(i) Hyper text transfer protocol	
	S.	(ii) File transfer protocol (iii) Voice over internet protocol	
		(iv) Secure shell	

	J						Т			
		(1/ 2 mark	for each corr	ect expansion)						
(	(f)		ow many pair of wires are there in twisted pair cable(Ethernet)?What is the ame of port ,which is used to connect Ethernet cable to a computer or a btop?							
1 1 2	An s.		wo insulated copper wires, Ethernet port mark for each correct Answer)							
(	(g)	(i) (ii) (iii)	stolen from his/ her account online via some online transactions in two days using NET BANKING.  (ii) A person complaints that his/ her debit/ credit card is safe with him still some body has done shopping/ ATM transaction on this card.  (iii) A person complaints that somebody has created a fake profile on acceptook and defaming his/ her character with abusive comments and							
	An s.	(i) (ii) (iii)	Bank Fraud Identity Thef Cyber Stalkin	ng						
(	(h)	Software Development Company has set up its new center at Raipur for its office and web based activities. It has 4 blocks of buildings named Block A, Block B, Block C, Block D.  Number of Computers								
				Block A	25					
				-	50					
				<b></b>	125					
				_	10					

Shortest distances between various Blocks in meters:

(i) Suggest the most suitable place (i.e. block) to house the server of this company with a suitable reason.

Ans. Block C, It has maximum number of computer.

(1 mark for correct answer)

(ii) Suggest the type of network to connect all the blo)cks with suitable reason.

Ans. LAN

## (1 mark for correct answer)

(iii) The company is planning to link all the blocks through secure and high-speed wired medium. Suggesta way to connect all the blocks.

Ans. Startopology

**OR** Diagram

## (1 mark for correct answer)

- (iv) Suggest the most suitable wired medium for efficiently connecting each computer installed in every block out of the following network cables:
  - # Coaxial Cable
  - 貓 Ethernet Cable
  - 貓 Single Pair Telephone Cable.

Ans. Ethernet Cable

(1 mark for correct answer)

## **SECTION-C** 1 Q.4 (a) Which key word is used to sort the records of a table in descending order? **DESC** Ans. (1 mark for correct answer) (b) Which clause is used to sort the records of a table? Ans. **ORDERBY** (1 mark for correct answer) (c) Which command is used to modify the records of the table? Ans. **UPDATE** (1 mark for correct answer) (d) Which clause is used to remove the duplicating rows of the table? DISTINCT Ans. (1 mark for correct answer)

(	e)	Differentiate b	etween Pr	imarv ke	y and Candidat	e kev.			2	
(	٠,	OR		midiy ito	y and Canada	o noy.				
		Differentiate b	etween De	egree an	d Cardinality.					
Aı	ns.	A Candidate k qualify as unio one table whe	ey can be ue key in re as AP	any colu database rimary K	umn or a combi e. There can be ey is a column only one Candida	multiple or a com	Candidat bination o	e Keys in f columns		
		(2 marks for c	marks for correct difference)							
		OR	₹							
					attributes in the			: It is the		
(	f)	Differentiate b	Differentiate between Django GET and POST method.						2	
Aı	ns.	dealing with fo	GET and POST. GET and POST are the only HTTP methods to use when ealing with forms. Django's login form is returned using the POST method, in which the browser bundles up the form data, encodes it for transmission, ends it to the server, and then receives back its response.							
		POST data. F	Both of these are dictionary-like objects that give you access to GET and POST data. POST data generally is submitted from an HTML <form>, while GET data can come from a <form> or the query string in the page's URL.</form></form>							
		(2 Marks for c	(2 Marks for correct difference)							
(9	g)		Vrite a output for SQL queries (i) to (iii), which are based on the table:							
		Fable : STUDENT								
		RollNo	Name	Class	DOB	Gender	City	Marks		
		RollNo 1	Name Nanda	Class X	<b>DOB</b> 06-06-1995	Gender M	<b>City</b> Agra	Marks 551		

RollNo	Name	Class	DOB	Gender	City	Marks
1	Nanda	X	06-06-1995	M	Agra	551
2	Saurabh	XII	07-05-1993	M	Mumbai	462
3	Sanal	XI	06-05-1994	F	Delhi	400
4	Trisla	XII	08-08-1995	F	Mumbai	450
5	Store	XII	08-10-1995	M	Delhi	369
6	Marisla	XI	12-12-1994	F	Dubai	250
7	Neha	Χ	08-12-1995	F	Moscow	377
8	Nishant	Χ	12-06-1995	M	Moscow	489

(i) SELECT COUNT(\* ), City FROM STUDENT GROUP BY CITY HAVING COUNT(\* )>1;

Ans. COUNT(\*) City

- 2 Mumbai
- 2 Delhi
- 2 Moscow

(1 mark for correct output)

(ii) SELECT MAX(DOB),MIN(DOB) FROM STUDENT;

Ans. MAX(DOB) MIN(DOB)

08-12-1995 07-05-1993

(1 mark for correct output)

(iii) SELECT NAME, GENDERFROM STUDENT WHERECITY=" Delhi";

Ans. NAME GENDER

			l								
		Sanal F									
		Store M									
		(1 mark for correct output)									
	(h)	Write SQL queries for (i) to (iv), which are based on the table: STUDENT given in the question 4(g):	4								
		<ul> <li>(i) To display the records from table student in alphabetical order as per the name of the student.</li> </ul>									
		Ans. SELECT * FROM STUDENT ORDERBYNAME;									
		(1 mark for correct statement)									
		(ii) To display Class, Dob and City whose marks is between 450 and 551.									
		Ans. SELECT CLASS,DOB,CITYFROM STUDENT WHEREMARKS BETWEEN 450 AND 551;									
		(1 mark for correct statement)									
	(iii) To display Name, Class and total number of students who have secured more than 450 marks, class wise.										
		Ans. SELECT NAME,CLASS,COUNT(* ) FROM STUDENT GROUP BYCLASS HAVING MARKS>450;									
		(1 mark for correct statement)									
		(iv) To increase marks of all students by 20 whose class is "XII".									
		Ans. UPDATESTUDENT SET MARKS=MARKS+20 where class="XII";									
		(1 mark for correct statement)									
		SECTION-D									
Q.5	(a)	It is an internet service for sending <u>written</u> messages electronically from one <u>computer</u> to another. Write the service name.	1								
	Ans.	e-mail									
		(1 mark for correct answer)									
	(b)	As a citizen of india, What advise you should give to others for e-waste disposal?	1								
	Ans.	As a citizen of india, We can advice the following principle of waste management: Reduce, Reuse and Recycle.									
		(1 mark for correct answer)									
	(c)	What can be done to reduce the risk of identity theft? Write any two ways.	2								
	Ans.	Don't Give out Personal Information to anyone     Don't Carry Your Social Security Card.									
		(1 mark for each point)									

(d)		2
	Ravi received a mail form IRS department ( as shown above). On clicking " Click-Here", he was taken to a site designed to imitate an official-looking website, such as IRS.gov. He uploaded some important information on it.	
	Identify and explain the cyber crime being discussed in the above scenario.	
	It is an example of phishing. phishing is a term used to describe a malicious individual or group of individuals who scam users. They do so by sending e-mails or creating web pages that are designed to collect an individual's online bank, credit card, or other login information.	
	(1 mark for identification) (1 mark for explanation)	
(e)	Differentiate between open source and open data.	2
	These licenses are based on the copyright protection of the code; thus, the "open" of open source refers to the source code. Difference between open data and open source is that of data versus application. Data can be numbers, locations, names, etc.  (2 Marks for correct difference)	
(1)	Enumerate any two disability issues while teaching and using computers.	2
	There are several types of disabilities that can affect computer accessibility. Although there is no single universally accepted classification, an indicative list of impairments includes the following: Visual impairments: blindness, low vision and color blindness.  (1 mark for each point)	