

COMPUTER SCIENCE - NEW (083) MARKING SCHEME - SQP (2019-20) CLASS- XII

Max. Marks: 70 Time: 3 hrs

General Instructions:

• All questions are compulsory.

• Question paper is divided into 4 sections A, B, C and D.

Section A: Unit-1
Section B: Unit-2
Section C: Unit-3
Section D: Unit-4

Q1. (a) Which of the following is valid arithmetic operator in Python: (i) // (ii) ? (iii) < (iv) and Ans. (i) // (1 mark for correct answer) (b) Write the type of tokens from the following: (i) if (ii) roll_no Ans. (i) Key word (ii) Identifier (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. (i) math (ii) random (1/2 mark for each module) Pewrite the following oode in python after removing all syntax error(s). Underline each correction done in the code. 30=To for Kin range(0,To) IFk%d=0: print (K+3) Ans. To=30 for Kin range(0,To):if_ k%d=0: print (K+3) (1/2 mark for each correction) (e) Find and write the output of the following python code: def fun(s):			CTCTTON A	
Ans. (i) // (ii)? (iii) < (iv) and 1 Ans. (i) // (1 mark for correct answer) (b) Write the type of tokens from the following: (i) if (ii) roll_no Ans. (i) Key word (ii) Identifier (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. (i) math (ii) random (1/2 mark for each module) (d) Hewrite 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+3) Bse: print (K+3) Ans. To=30 for Kin range(0,To): if_ k%4=0: print (K+3) (1/2 mark for each correction) (e) Find and write the output of the following python code: def fun(s):		()	SECTION-A	
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30=To for Kin range(0,To) IFk%4=0:		(d)		2
IF k%4=0: print (K*4) Bse: print (K+3) Ans Io=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):				
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### Bee: ### 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):				
### Bee: ### 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):			print (K*4)	
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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):			<u>if</u> k%4=0:	
print (K+3) (1/2 mark for each correction) (e) Find and write the output of the following python code: def fun(s):			print (K* 4)	
(1/2 mark for each correction) (e) Find and write the output of the following python code: def fun(s): 2				
(e) Find and write the output of the following python code: def fun(s): 2		4		
def fun(s):			(1/2 mark for each correction)	
		(e)	Find and write the output of the following python code:	2
			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')
      SCHOOLbbbbCOM
Ans.
      (2 marks for correct output)
      Note: Partial marking can also be given
(f)
      Find and write the output of the following python code:
                                                                                          3
      def Change(P,Q=30):
              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)
      250 # 150
Ans.
      250 # 100
      130 # 100
      (1 mark each for correct line)
      What possible outputs(s) are expected to be displayed on screen at the time of
                                                                                          2
(g)
      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
      AP=[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#
```

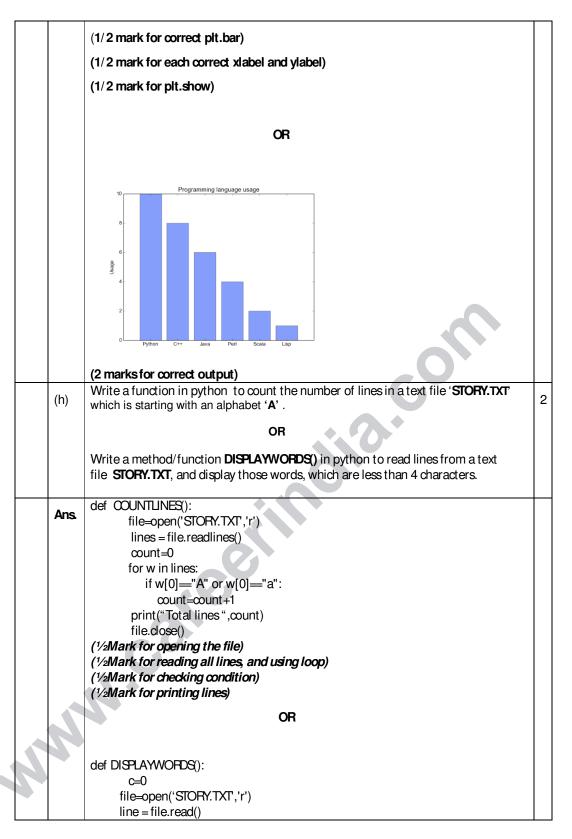


		(iii) 50#60#70# (iv) 40#50#70#						
	Ans.	(ii) 30#40#50# Maximum value FFOM,TO is 3,4) (1/2 mark each for maximum value)						
		(1 mark for correct option)						
Q2.	(a)	What do you understand by the term Iteration?	1					
	Ans.	Repeatation of statement/s finite number of times is known as Iteration.						
		(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: L=[1, 23, 'hi', 6].	1					
		(i) list (ii) dictionary (iii) array (iv) tuple						
		(i) List						
	Ans.	(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 OR infinite 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)						
	N							
		call()						
	Ans.	15						



	(1 mark for correct answer)	
(f)	What do you understand by local and global scope of variables? How can you access a global variable inside the function, if function has a variable with same name.	2
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 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.	2
	OR	
	Give the output from the given python code:	
	<pre>import matplotlib.pyplot as plt; plt.rcdefaults() import numpy as np import matplotlib.pyplot as plt</pre>	
	<pre>objects = ('Python', 'C++', 'Java', 'Perl', 'Scala', 'Lisp') y_pos = np.arange(len(objects)) performance = [10,8,6,4,2,1]</pre>	
	<pre>plt.bar(y_pos, performance, align='center', alpha=0.5) plt.xticks(y_pos, objects) plt.ylabel('Usage') plt.title('Programming language usage')</pre>	
	plt.show()	
Ans.	import matplotlib.pyplot as plt	
	import numpy as np	
	model=('i20','Grandi10','Greta','Eon','Verna','Tucson','Bantra')	
	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)	
20	plt.xlabel('Month-June')	
	plt.ylabel('Sale done')	
1	plt.title('Sales Bar Graph')	
	plt.show()	







```
word = line.split()
            for w in word:
               if len(w)<4:
                  print(w)
            file.close()
       (1/2Mark for opening the file)
       (1/2Mark for reading line and/ or splitting)
      (1/2Mark for checking condition)
      (1/2Mark for printing word)
(i)
      Write a Recursive function in python 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.
      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 ("Bement is present at index", result)
         print ("Bement is not present in array")
       (1/2 mark for mid)
```



```
(1/2 mark for return mid)
      (1 mark each for returning function)
      (1 mark for invoking function)
      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")
        print("The factorial of",num,"is",recurfactorial(num))
      (2 marks for correct recursive function)
      (1 mark for invoking)
       Write a function in Python, INSERTQ(Arr,data) and DELETEQ(Arr) for performing
(j)
      insertion and deletion operations in a Queue. Arr is the list used for implementing
      queue and data is the value to be inserted.
      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.
      def INSERTQ(Arr):
Ans.
           data=int(input("enter data to be inserted: "))
           Arr.append(data)
       def DBLETEQ(Arr):
           if (Arr=[]):
            print("Queue empty")
             print ("Deleted element is: ",Arr[0])
            del(Arr[0])
       ( 1/2mark insert header)
       ( ½mark for accepting a value from user)
       ( 1/2mark for adding value in list)
       ( ½mark for delete header)
       ( ½mark for checking empty list condition)
```



```
( 1/2mark for displaying "Queue empty")
             ( 1/2 mark for displaying the value to be deleted)
            ( 1/2mark 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())
             (1/2mark for MakePush() header)
            ( 1/2mark for accepting a value from user)
            ( 1/2mark for adding value in list)
            ( 1/2mark for MakePop() header)
            ( ½mark for checking empty list condition)
            ( 1/2mark for displaying "Stack empty")
            ( 1/2mark for displaying the value to be deleted)
            ( 1/2mark for deleting value from list)
                              SECTION-B
Q.3
             Questions 3 (a) to 3 (c): Fill in the blanks
                                                                                                1
      (a)
             .....is an example of Public doud.
      Ans.
             Google Drive or any other correct example
            (1 mark for correct answer)
             ..... is a network of physical objects embedded with electronics,
      (b)
            software, sensors and network connectivity.
            The internet of things OR Internet
      Ans.
             (1 mark for correct answer)
                     -----is a device that forwards data packets along networks.
      (c)
                                                                                                1
      Ans.
            Pouter
            (1 mark for correct answer)
      (d)
                  ----- describes the maximum data transfer rate of a network or Internet
            connection.
      Ans.
            Band width
             (1 mark for correct answer)
                                                                                                2
      (e)
            Give the full forms of the following
```



	ı							
		(i) НПР						
		(ii) FIP						
		(iii) VoIP						
		(iv) SSH						
	Ans.	(i) Hyper text transfer protocol (ii) File transfer protocol (iii) Voice over internet protocol (iv) Secure shell						
		(1/2 mark for each correct expansion)						
	(f)	How many pair of wires are there in twisted pair cable (Ethernet)? What is the name of port, which is used to connect Ethernet cable to a computer or a labtop?						
	Ans	Two insulated copper wires, Bhernet port						
	Alls	(1 mark for each correct Answer)						
	(g)	Identify the type of cyber crime for the following situations:	3					
		(i) A person complains that Ps. 4.25 lacs have been fraudulently 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 shooping/ATM transaction on this card.						
		some body has done shopping/ ATM transaction on this card. (iii) A person complaints that somebody has created a fake profile on Facebook and defaming his/her character with abusive comments and pictures.						
	Ans.	(i) Bank Fraud (ii) Identity Theft (iii) Cyber Salking						
		(1 mark for each correct answer)						
	(h)	Software Development Company has set up its new center at Paipur for its office and web based activities. It has 4 blocks of buildings named Block A, Block B, Block C, Block D.	4					
1	27	Number of Computers						
2		Block A 25						



Block B	50
Block C	125
Block D	10

Shortest distances between various Blocks in meters:

Block A to Block B	60 m
Block B to Block C	40 m
Block Cto Block A	30 m
Block D to Block C	50 m

(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. Suggest a way to connect all the blocks.

Ans. Star topology

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
 - Ethernet Cable
 - Single Pair Telephone Cable.

Ans. Ethernet Cable

(1 mark for correct answer)

	La	SECTION-C	
Q.4	(a)	Which key word is used to sort the records of a table in descending order?	1
2	Ans.	DESC	
		(1 mark for correct answer)	



1		_
(b)	Which clause is used to sort the records of a table?	
Ans.	ORDER BY	
	(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?	
Ans.	DISTINCT	
	(1 mark for correct answer)	
(e)	Differentiate between Primary key and Candidate key.	
	OR	
	Differentiate between Degree and Cardinality.	
Ans.	A Candidate Key can be any column or a combination of columns that can qualify as unique key in database. There can be multiple Candidate Keys in one table where as A Primary Key is a column or a combination of columns that uniquely identify a record. Only one Candidate Key can be Primary Key.	
	(2 marks for correct difference)	
	OR	
	Degree: It is the total number of attributes in the table.	
	Cardinality: It is the total number of tuples in the table	
	(2 marks for correct difference)	
(f)	Differentiate between Django GET and POST method.	
Ans.	GET and POST. GET and POST are the only HTTP methods to use when dealing 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, sends it to the server, and then receives back its response.	
	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 correct difference)	
(g)	Write a output for SQL queries (i) to (iii), which are based on the table: STUDENT given below:	
	Table : STUDENT	
		l



RollNo	Name	Class	DOB	Gender	City	Marks
1	Nanda	Х	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	Х	08-12-1995	F	Moscow	377
8	Nishant	X	12-06-1995	M	Moscow	489
(i)	SELECT COUI COUNT(*)>1;	VT(*), C	ity FROM STU	IDBNT GRO	OUP BY (DAIVAH YTK
Ans.	COUNT(*)	۵t	у			
	2	Mur	nbai			
	2	Dell	ni			
	2	Mos	scow			
	(1 mark for co	rrect ou	tput)			
(ii)	SELECT MAX(I	OOB),MI	N(DOB) FROM S	STUDENT;		
Ans.	MAX(E	OB)	MIN(DOE	3)		
	08-12-1	995	07-05-1993	0		
	(1 mark for	correct	output)			
(iii)	•		RFROM STUDE	NT WHERE	OTY="Delh	ni";
Ans.	NAME		GENDER			
	Sanal		F			
	Store /		М			
	(1 mark for	correct	output)			
	(Tillaik loi	wheat	output)			
Write 901	queries for (i) to	o (iv) wł	nich are based o	n the table	STUDENT	aiven in the
question 4		o (. v), v.			. 0.02	givorimuno
(i)	To display the the name of t		s from table stu ent.	udent in alp	ohabetical	order as per
Ans.	SELECT* F	FROM ST	UDENT OPDER	BYNAME;		
	(1 mark f	or corre	ct statement)			
(ii)	To display Cla	ss, Dob a	and City whose I	marks is be	tween 450	and 551.
_						

SELECT CLASS, DOB, CITY FROM STUDENT WHERE MARKS

BETWEEN 450 AND 551;

(1 mark for correct statement)

(h)

Ans.



		(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 BY CLASS						
		HAVING MAPKS-450;						
		(1 mark for correct statement)						
		(iv) To increase marks of all students by 20 whose class is "XII".						
		Ans. UPDATE STUDENT 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. 1. Don't Give out Personal Information to anyone	2					
	Ans.	2.Don't Carry Your Social Security Card.						
		(1 mark for each point)						
	(d)	From: Internal Revenue Service [mailto:admin@irs.gov]	2					
		Sent: Wednesday, March 01, 2006 12:45 PM To: john.doe@idoe.com Subject: IRS Notification - Please Read This .						
		After the last annual calculations of your fiscal activity we have determined that you are eligible						
		to receive a tax refund of \$63.80. Please submit the tax refund request and allow us 6-9 days in						
		order to process it. A refund can be delayed for a						
		variety of reasons. For example submitting invalid records or applying after the deadline.						
		To access the form for your tax refund, please click here						
	N							
		Pavi received a mail form IPS department (as shown above). On dicking " Click-						
		Here", he was taken to a site designed to imitate an official-looking website, such						
		as IPS gov. He uploaded some important information on it.						
1		Identify and explain the cyber crime being discussed in the above scenario.						



Ans		
	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
Ans	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)	
(f)	Enumerate any two disability issues while teaching and using computers.	2
Ans	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)	