

SET-A

M.M.:70

Time: 3 Hrs . General Instructions:-

	Section A(18X1=18)	
Q.N.	Questions	Marks
1	State True or False. Every if statement must be followed by an else or else-if statement.	1
2	Which of the following operator operates on single variable?(a) NOT(b) AND(c) OR(d) XOR	1
3	What will be the output of the following Python code? dic1 = {0: 'One', 1: 'Two', 2: 'Three'} for x in dic1: print (x) (a) 0 1 2 (b) One Two Three (c) 0 One 1 Two 2 Three (d) Error	1
4	What will be the output of the following code? $D1=\{1: "One", 2: "Two", 3: "C"\}$ $D2=\{4: "Four", 5: "Five"\}$ D1.update(D2) print (max(D1)) a) 'Five' b) Error c) [5: "Five"] d) 5	1
5	This function converts all uppercase letters in string to lowercase letters.(a) upper()(b) lower()(c) isupper()(d) islower()	1
6	What is the output of the following code? T1=(70,56,"Hello",22.2,,"Hi","The","World",3) print (t1 [2:4]) (a) (56, 'Hello''') (b) ('Hello, 22) (c) ('Hello', 22.2) (d) (56, 'Hello', 22)	1
7	Which of the following is/are invalid identifier in Python? a. Sum# b. pie c. For dschool	1
8	Identify the statement with an error in the code given below:: str= "Swatch Bharat" #statement 1 x= 3 #statement 2 print(str*x) #statement 3 print(str+3) #statement 4 a) statement 1 b) statement 2 c) statement 3 d) statement 4	1
9	Identify the utility software from the software mentioned below : a. Antivirus b. Disk defragmenter c. Ubuntu d. Spreadsheet	1
10	Which of the following is the correct expansion of XOR gate ?a. Extra OR gateb. Exclusive OR gatec. not of OR gated. ONLY OR gate	1
11	Which index number is used to represent last character of string? $(a) - 1$ $(b) 1$ $(c) 0$ $(d)n - 1$	1
12	Slice operation is performed on string with the use of (a); (b), (c): (d).	1
13	Is the following Python code valid? >>>tup1= (56, 25, 36, 15) >>>result=tupl.update(4,) (a) Yes, tup 1=(56, 25, 36, 15, 4) and result=(56, 25, 36, 15, 4)	1

	(b) Yes, tup 1=(56, 25, 36, 15) and result=(56, 25, 36, 15, 4)	
	(c) No, because tuples are immutable	
	(d) No, because wrong syntax for update() method	
14	What is the output of following code? t= (4,0, 'Hello', 90, 'Two', ('One', 45),34, 2)	1
14	t1=t [1]+t [-2]	1
	print $(t1)$	
	(a) 34 (b) 38 (c) Hello 34 (d) 45	
15	Predict the correct output of the code given below:	1
15	a = 10	1
	a = 10 b = 3.4	
	c = 2	
	a -=b	
	a = 3 + c	
	b +=a*2	
	b = b/2	
	$\frac{b-b/2}{\text{print}(b)}$	
	a. 69.4 b. 34.7 c. Error d. 34	
16	Select the correct output of the code:	1
10	t1= "Learn today Lead tomorrow"	
	d=t1.partition('Lead')	
	print(d)	
	a. 'Learn today ', 'Lead', ' tomorrow'	
	b. ['Learn today', 'Lead', 'tomorrow']	
	c. ('Learn today', 'Lead', 'tomorrow')	
	d. {'Learn today', 'Lead', 'tomorrow'}	
	Q17 and 18 are ASSERTION AND REASONING based questions. Make the correct	
	choice as	
	a. Both A and R are True and R is the correct explanation for A.	
	b. Both A and R are True and R is not the correct explanation for A.	
	c. A is True but R is False.	
	d. A is False but R is True.	
17	Assertion (A) Python codes do not require curly braces () for making blocks.	1
	Reason (R) Python uses indentation for on as grouping statements in a block.	
18	Assertion(A):. The append function does not work with tuples.	1
	Reasoning(R): Tuples support addition using '+' operator and not using append	
	function	
	Section B(2X7=14)	
19	Define packing and unpacking tuples	2
20	State and prove Demorgan's law algebrically	2
21	a = {}	2
	a[1] = 11	
	a['1'] = 22	
	a[1] - =1	
	s=0	
	for i in a:	
	s=s+a[i]	
	print(s)	
22	Find the errors.	2
	L1=[2,4,5,9]	
	L2=L1*3	
	L3=L1+3	
	L4=L1. pop (5)	
23	Predict the output.	2

	L1 = [3. 4, 5, 9. 11, 2, 27]	
	print (Ll. index (3))	
	print (max (L1))	
	print (len (L1))	
24	Convert the following:	2
	a. $(8AC)_{16} = (\dots)_{10}$	
	b. (10111010.110) ₂ =() ₈	
25	Draw the logic circuit diagram of the following Boolean expression:	2
-0	F=(A+B).(A.C')	-
	Section C(3X5=15)	
26	What will be the output of the Python code given below:	3
20	list=[20,21,35,47,55]	5
	for x in list:	
	if x%2==0:	
	s=s+(2*x)	
	elif x%3==0:	
	s=s+(3*x)	
	else:	
	s=s-x	
	print(s)	
27	Write a program in Python to input a sentence and display each word starting with "T"	3
	and display its count too.	
28	Write a python program to find the sum of series	3
-0	$x+x^2+x^3+x^4+x^5+\dots x^N$	U
29	Write a flowchart to show whether it is armstrong or not	3
30	Observe the following python code and find the possible output(s) from the	3
30	possible output(s) from option (a) to (d). Also, write the minimum and maximum	5
	values that can be possibly assigned to variable 't'.	
	import random	
	display=("A", "O", "M", "C")	
	s=random.randint(1,3)	
	t=random.randint(2,4)	
	for i in range(s,t):	
	print(display[i], end="@")	
	a. <u>M@C@</u> b.M@A@	
	c.O@M@C@ d.O@A@	
	Section D(4X2=8)	
31	Given a string s=" I love Python very much"	4
	Write a statement to produce the following output:	
	(i) Python	
	(i) [''I'', "love", "Python", "very", "much"]	
	(iii) print reverse of the entire string	
	(iv) print last five characters	
	b. Rewrite the following while loop into its equivalent for loop	
	b. Rewrite the following while loop into its equivalent for loop x="Today is my computer exam"	
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	ii. To print a string str with the first letter of the string in uppercase .	
	b. Predict the output	
	(i) import random	
	random.choice([15.5,156.9,76])	
	(ii) which type of data elements are accepted by random.shuffle()	
	Section E(5X3=15)	
33	Observe the code and write the output.	5
	(i) 'arihant publication'. capitalize()	
	(ii) 'arihant publication' count('hant', 0, 10)	
	(iii) 'arihant publication'. endswith ('ion.')	
	(iv) 'Arihant Publication'. find (The')	
	(v) 'Arihant Publication' .index('cat')	
34	(i)Write the short note on	2
	(a) ceil() (b) floor()	
	(ii) Write a Python program to find the odd numbers and even numbers from entered	
	list and display them in two different list.	3
35	Consider the following commands being run in sequence for the dictionary and	5
	give the output accordingly:	
	inventory= {'Pen':20, 'Eraser':50, 'pencil': 50, 'paint brush':30}	
	a. print (inventory['Pen'])	
	b. inventory['Wax crayons']=15	
	<pre>print (list(inventory.values()))</pre>	
	c. print (inventory.update({'notebook':23})	
	d. print (inventory.popitem())	
	e. print (inventory.fromkeys(['sample paper', 'stamp'],(80))	



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(a) -1(b) 1(c) 0(d) n -112Slice operation is performed on string with the use of (a); (b), (c): (c): (d).113Is the following Python code valid? >>>result=tup1.update(4,) (a) Yes, tup 1=(56, 25, 36, 15, 4) and result=(56, 25, 36, 15, 4) (b) Yes, tup 1=(56, 25, 36, 15) and result=(56, 25, 36, 15, 4) (c) No, because tuples are immutable (d) No, because wrong syntax for update() method114What is the output of following code? t= (4,0, 'Hello', 90, 'Two', ('One', 45), 34, 2) ti=t[]+t[-2] print(1) (a) 34 (b) 38 (c) Hello34 (d) 45115Predict the correct output of the code given below: a =-10 b =-3.4 c =-2 a -b-a a *=3+c b +=a*2 b +=b/2 print(b) a. 69.4116Select the correct output of the code: t1 = t1=triam today Lead tomorrow." d=t1-partition('Lead') print(d) a. 69.4116Select the correct output of the code: t1 = t1=art today', 'Lead', 'tomorrow' d. ('Learn today, 'Lead', 'tomorrow' d. ('Learn today, 'Lead', 'tomorrow') d. ('Learn today', 'Lead', 'tomorrow' d. ('Learn today', 'Lead', 'tomorrow') d. ('Learn today', 'Lead', 'tomorrow') d. ('Learn today', 'Lead', 'tomorrow') d. ('Learn today', 'Lead', 'tomorrow'] d. ('Learn today', 'Lead', 'tomorrow'] d. ('Learn today', 'Lead', 'tomorrow'] d. ('Learn today', 'Lead', 'tomorrow'] b. Both A and R are True and R is the correct explanation for A. b. Both A and R are True and R is the correct explanation for A. c. A is Take but R is Take. d. A is Take but R is Take. d. A is Take but R is True.117Assectrin (A) Python ocdes do not require curly braces () for making blocks. Reasoning(R): Tuples support addition using ++' ope	11	Which index number is used to represent last character of string?	1
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(a) 34(b) 38(c) Hello34(d) 4515Predict the correct output of the code given below: a =10 b = 3.4 c =2 a =-b a *=3+c b +=a*2 b =b/2 print(b) a. 69.4116Select the correct output of the code: t 1= "Learn today Lead tomorrow" d=t1.partition('Lead') print(d) a. 'Learn today ', 'Lead', 'tomorrow' b. ['Learn today ', 'Lead', 'tomorrow'] c. ('Learn today ', 'Lead', 'tomorrow'] d. {'Learn today ', 'Lead', 'tomorrow']117Assertion(A). The append function does do not require curly braces () for making blocks. Reason (R) Python codes do not require curly braces () for making blocks. Reason (R) Python uses indentation for on as grouping statements in a block. a. Both A and R are True and R is the correct explanation for A. b. Both A and R are True and R is the correct explanation for A.118Assertion(A). The append function does not work with tuples. Reasoning(R): Tuples support addition using '+' operator and not using append Function b. Both A and R are True and R is not the correct explanation for A.119Define packing and unpacking tuples The process of assigning values to a tuple is known as packing. While on the other hand, the unpacking or tuple assignment is the process that assigns the values on the right-hand side to the left-hand side variables. In unpacking, we basically extract the2			
15 Predict the correct output of the code given below: 1 a=10 b=3.4 2 c=2 a.=b a*=3+c b=a*2 b=b/2 print(b) a. 69.4 b. 34.7 c. Error d. 34 16 Select the correct output of the code: 1 1 11= "Learn today Lead tomorrow" d=1.partition('Lead') 1 d=t1.partition('Lead') print(d) a. 'Learn today ', 'Lead', 'tomorrow' 1 c. ('Learn today ', 'Lead', 'tomorrow') c. ('Learn today ', 'Lead', 'tomorrow') 1 Q17 and 18 are ASSERTION AND REASONING based questions. Make the correct choice as a. Both A and R are True and R is the correct explanation for A. b. Both A and R are True and R is not the correct explanation for A. 1 1 17 Assertion (A) Python uses indentation for on as grouping statements in a block. 1 a. Both A and R are True and R is the correct explanation for A. 1 I8 Assertion (A). Python uses indentation for as grouping statements in a block. 1 Reasoning(R): Tuples support addition using '+' operator and not using append Function 1 I8 Assertion (A). The append function does not work with tuples. 1			
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	Solution Solution >>> x = (1,2,3) >>> x (1, 2, 3) >>> x, y, z = (1,2,3) >>> x, y, z = (1,2,3) >>> x 1 >>> y	
	2 >>> z	
20	State and prove Demorgan's law algebraically (A+B)'=A'.B' (AB)'=A'+B' For $A + \overline{A} = 1$,	2
	$A \cdot B + \overline{A} + \overline{B} = 1$ [Substitution as mentioned above]	
	$\overline{A} + B + \overline{B} = 1$ [Using absorption law $(\overline{A} + A \cdot B = \overline{A} + B)$]	
	$\overline{A} + 1 = 1$ [Using $A + \overline{A} = 1$]	
	1 = 1 [Using $A + 1 = 1$]	
	For $A\overline{A} = 0$,	
	$AB(\overline{A} + \overline{B} = 0)$ [Substitution as mentioned above]	
	$AB\overline{A} + AB\overline{B} = 0$ [Using distributive property]	
	$0 + 0 = 0 \qquad [Using A\overline{A} = 0]$	
	0 = 0 [Simplifying]	
21	$a = \{\}$ a [1] = 11 a ['1'] = 22 a [1] - =1 s=0 for i in a: s=s+a[i] print(s) Ans:-32	2
22	Find the errors. L1=[2,4,5,9] L2=L1*3 L3=L1+3 #integer and list can not add L4=L1. pop (5) # index not found	2
23	Predict the output. L1 = [3, 4, 5, 9. 11, 2, 27] print (L1. index (3))=>0	2

	print (max (L1))=>27	
	print (len (L1)) =>7	
24	Convert the following:	2
	a. $(8AC)_{16} = (2220)_{10}$	
	b. $(10111010.110)_2 = (262.6)_8$	
25	Draw the logic circuit diagram of the following Boolean expression:	2
	F=(A+B).(A.C')	
	Section C(3X5=15)	
26	What will be the output of the Python code given below:	3
	list=[20,21,35,47,55]	
	s=0	
	for x in list:	
	if x%2==0:	
	s=s+(2*x)	
	elif x%3 == 0:	
	s=s+(3*x)	
	else:	
	s=s-x	
	print(s)	
	Ans:-34	
27	Write a program in Python to input a sentence and display each word starting with "T"	3
	and display its count too.	
	S=input("enter string")	
	W=s.split()	
	for a in W:	
	if a[0]=="t":	
	c + = 1	
28	print(c)	3
20	Write a python program to find the sum of series $x+x^2+x^3+x^4+x^5+x^N$	5
	$ \begin{array}{c} x + x + x + x + x + \dots \\ s=0 \end{array} $	
	x=int(input("enter x"))	
	n=int(input("enter n"))	
	for i in range(1,n+1):	
	s=s+math.pow(x,i)	
	print(s)	
29	Write a flowchart to show whether it is armstrong or not	3
		-

	Start Print "Enter n" Read n Sum = 0 m = n if False m = sum Not Armstrong	
	$r = n \% 10$ $n = n / 10$ $sum = sum + r^{3}$ Stop	
30	Observe the following python code and find the possible output(s) from the possible output(s) from option (a) to (d). Also, write the minimum and maximum values that can be possibly assigned to variable 't'. import random display=("A", "O", "M", "C") s=random.randint(1,3) t=random.randint(2,4) for i in range(s,t): print(display[i], end="@") a. M@C@ b.M@A@ c.O@M@C@ d.O@A@ min value for t=2 max value for t=4 correct output: a. M@C@ c.O@M@C@	3
31	Section D(4X2=8)Given a string s="1 love Python very much"Write a statement to produce the following output:(i) Python=>s[7:12](ii) ["I", "love", "Python", "very", "much"]=>s.split()(iii) print reverse of the entire string=>s[::-1](iv) print last five characters=>s[-5:]b. Rewrite the following while loop into its equivalent for loopx="Today is my computer exam"i=0while i < len(x):print(x[i])i=i+2for i in range (0,len(x),2):print(x[i])	4
32	 a. Write python statements to do the following by using library function and importing appropriate library module in python: i. To print mean of the list l=[1,2,3,1,2,4,5,1,5] Import statistics 	4

	Statistics.mean(1)	
	ii. To print a string str with the first letter of the string in uppercase.	
	Str.capitalize()	
	b. Predict the output	
	(i) import random	
	random.choice([15.5,156.9,76])	
	15.5,156.9,76 any one out of these	
	(ii) which type of data elements are accepted by random.shuffle()=> list	
	Section E(5X3=15)	
33	Observe the code and write the output.	5
	(i) 'arihant publication'. capitalize() =>Arihant publication	C
	(ii) 'arihant publication' count('hant', 0, 10)=>1	
	(iii) 'arihant publication'. endswith ('ion.') => true	
	(iv) 'Arihant Publication'. find (The')=> -1	
	(v) 'Arihant Publication' index('cat')=> 13	
34	(i)Write the short note on	2
	(a) ceil() (b) floor()	
	$Math.ceil(1.2) \Rightarrow 2$	
	Math.floor $(1.2) => 1$	3
	(ii) Write a Python program to find the odd numbers and even numbers from entered list	
	and display them in two different list.	
	def sum():	
	e=0	
	o=0	
	l=eval(int(input("enter list"))	
	for a in l:	
	if a %2==0:	
	e+=1	
	else:	
	0+=1	
	print("Number of odd number",0)	
	print("Number of even numbers",e)	
35	Consider the following commands being run in sequence for the dictionary and	5
	give the output accordingly:	
	inventory= {'Pen':20, 'Eraser':50, 'pencil': 50, 'paint brush':30}	
	a. print (inventory['Pen'])=>20	
	b. inventory['Wax crayons']=15	
	print (list(inventory.values()))=>[20,50,50,30]	
	c. print (inventory.update({`notebook':23})	
	=>{'Pen':20, 'Eraser':50, 'pencil': 50, 'paint brush':30, 'notebook':23}	
	d. print (inventory.popitem())=>'notebook':23	
	e. print (inventory.fromkeys(['sample paper', 'stamp'],(80))	
	$=>$ {'Pen':20, 'Eraser':50, 'pencil': 50, 'paint brush':30, 'sample paper':80, 'stamp':80}	
L		I



SET-B

M.M.:70

Time: 3 Hrs . General Instructions:-

Q.N.	Questions	Marks
1	State True or False.	1
	The extension of a python file is .pt.	
2	Which of the following operator gives output 1 when both inputs are 1	1
	(a) NOT (b) AND (c) OR (d) XOR	
3	What will be the output of the following Python code?	1
	d = {0: 'One', 1: 'Two', 2: 'Three'}	
	for x in d:	
	print (d[x])	
	(a) 0 1 2 (b) One Two Three (c) 0 One 1 Two 2 Three (d) Error	
4	What will be the output of the following code?	1
	D1={1: "One",12: "Two", 13: "C"}	
	D2={12: "Four",5: "Five"}	
	D1.update(D2)	
	print (max(D1))	
	a) 'Five' b) 12 c) [13:"c"] d) 13	
5	This function converts all uppercase letters in string to lowercase letters and vice versa	1
	(a) upper() (b) swapcase() (c) isupper() (d) islower()	
6	What is the output of the following code?	1
	T1=(70,56,"Hello",22,2,,"Hi","The","World",3)	
	print (t1 [:4])	
	(a) (56, 'Hello',22,2) (b) (70,56,'Hello, 22)	
	(c) ('Hello', 22,2) (d) (70,56, 'Hello', 22,2)	
7	Which of the following is an valid identifier in Python?	1
	a. Sum# b. pie c. For dschool	
8	Identify the statement with an error in the code given below::	1
	str= "Swatch Bharat" #statement 1	
	x=3 #statement 2	
	print(str+x) #statement 3	
	print(str*3) #statement 4	
	a) statement 1 b) statement 2 c) statement 3 d) statement 4	
9	Identify the application software from the software mentioned below :	1
	a. Antivirus b. Disk defragmenter c. Ubuntu d. Spreadsheet	
10	NOR gate is constructed by using OR gate followed by	1
	(a) AND gate (b) XOR gate (d) NOT gate (c) NAND gate	
11	Which index number is used to represent last 3 rd character of string of n characters?	1
	(a) - 1 $(b) n-3$ $(c) -2$ $(d)-3$	
12	Concatenation operation is performed on string with the use of	1
	(a) - (b) * (c) + (d) +=	
13	Is the following Python code valid?	1
	>>>tup1=(56, 25, 36, 15)	
	>>>result=tupl+(5)	
	(a) Yes, tup 1=(56, 25, 36, 15) and result=(56, 25, 36, 15,5)	
	(b) No, because of wrong syntax	

	(c) (b) Yes, tup 1=(56, 25, 36, 15) and result=(5, 56, 25, 36, 15)	
	(c) (b) res, tup $1^{-}(50, 25, 50, 15)$ and result $-(5, 50, 25, 50, 15)$ (d) (c) No, because tuples are immutable	
14	What is the output of following code? $t = (4,0, 'Hello', 90, 'Two', ('One', 45), 34, 2)$	1
	$t_{1=t}[-2]+t[-1]$	-
	print (t1)	
	(a) 34 (b) 38 (c) Hello 34 (d) 36	
15	Predict the correct output of the code given below:	1
	a =10	
	b = 3.4	
	c =2	
	a -=b	
	a *=3+c	
	b + = a * 2	
	b = b/2	
	$\operatorname{print}(\mathbf{b})$	
1(a. 69.4 b. 34.0 c. Error d. 34	1
16	Select the correct output of the code:	1
	t1= "Learn today Lead tomorrow" d=t1.split('Lead')	
	print(d)	
	a. 'Learn today ', 'Lead', ' tomorrow'	
	b. ['Learn today ', 'tomorrow']	
	c. ('Learn today', 'Lead', 'tomorrow')	
	d. ('Learn today ', ' tomorrow')	
-	Q17 and 18 are ASSERTION AND REASONING based questions. Make the correct	
	choice as	
	a. Both A and R are True and R is the correct explanation for A.	
	b. Both A and R are True and R is not the correct explanation for A.	
	c. A is True but R is False.	
	d. A is False but R is True.	
17	Assertion(A): Substring and string slices of a string are not the same though both of	1
	them refer to the subparts of the strings	
	Reason(R) : A substring contains continuous subpart(s) of the string whereas string	
18	slices may or may not contain continuous subpart(s) of a string.	1
10	Assertion (A) A list can be a key of a dictionary. Reason (R) A list is a mutable data type.	1
	Section B(2X7=14)	
19	Define sort and sorted function with the help of suitable example	2
20	State and prove associative law with the help of truth table	2
20	$a = \{\}$	2
	a [1] = 1	-
	a['1'] = 2	
	a[1] + = 1	
	s=0	
	for i in a:	
	s=s+a[i]	
	print(s)	
22	Find the errors.	2
	L1=[2,4,5,9]	
	L2=L1*3 L2=L1+2	
	$L_3 = L_1 + 3$	
	L4=L1. pop (5)	

23	Predict the output.	2
	L1 = [3.2, 4, 5, 9.11, 2, 227]	
	print (Ll. count (2))	
	print (max (L1)> len (L1))	
24	Convert the following:	2
	a. $(9AB)_{16} = (\dots, \dots)_{10}$	
	b. $(10111110.110)_2 = ()_8$	
25	a. Do the following memory conversion	2
	$2X2^{10} TB = KB$	
	b. Prove the following equality	
	((A.B)'+(A.B)')'=(A.B)	
	Section C(3X5=15)	
26	What will be the output of the Python code given below:	3
20	list=[20,21,35,47,55]	5
	$\begin{bmatrix} 13t - [20, 21, 55, 47, 55] \\ s = 0 \end{bmatrix}$	
	for x in list:	
	if $x\%2==0$:	
	s=s+(2*x)	
	$\operatorname{elif} x\%3 == 0:$	
	s=s+(3*x)	
	else:	
	s=s-x	
	print(s)	
27	Write a program in Python to input a sentence and display each word starting with	3
	vowel	
28	Write a flowchart to print reverse of a 5 digit number and show whether its palindrome	3
	or not	
29	Write a python program to find the sum of series	3
	$x+x^2+x^4+x^6+x^8+x^N$	
30	Observe the following python code and find the possible output(s) from the	3
	possible output(s) from option (a) to (d). Also, write the minimum and maximum	
	values that can be possibly assigned to variable 't'.	
	import random	
	display=("A", "O", "M", "C")	
	s=random.randint(1,3)	
	t=random.randint(2,4)	
	for i in range(s,t):	
	print(display[i], end="@")	
	$a. M(a)C(a) \qquad b.M(a)A(a)$	
	$\overrightarrow{c.O(a)M(a)C(a)}$ $d.O(a)A(a)$	
	Section D(4X2=8)	
31	a.Given a string s=" I love Python very much"	4
	Write a statement to produce the following output:	
	(i) very	
	(ii) ("I", "love", "Python very much")	
	or	
	(i) print reverse of the entire string	
	(i) print first five characters	
	b. Rewrite the following while loop into its equivalent for loop	
	x="Today is my computer exam"	
	i=0	
	while $i < len(x)$:	
	print(x[i])	

	i=i+2						
32	a. Write python statements to do the following by using library function and	4					
	importing appropriate library module in python:						
	i. To print median of the list l=[1,2,3,1,2,4,5,1,5]						
	ii. To get list of every word of string						
	b. Write a python code to shuffle the elements of a given list using random module						
	Section E(5X3=15)						
33	Observe the code and write the output.	5					
	(i) 'Arihant publication'. title()						
	(ii) 'arihant publication'.swapcase()						
	(iii) 'arihant publication'. starts with ('Ari.')						
	(iv) 'Arihant Publication'. find ('ant')						
	(v) 'Arihant Publication' .index('Hant')						
34	(i)Write the short note on	2					
	(a) append() (b) extend()						
	(ii) Write a Python program to find the sum of odd numbers and sum of even numbers						
	present in a list and display both answers	3					
35	Consider the following commands being run in sequence for the dictionary and	5					
	give the output accordingly:						
	inventory= {'Pen':20, 'Eraser':50, 'pencil': 50, 'paint brush':30}						
	a. print (inventory['Eraser'])						
	b. inventory['notebooks']=25						
	<pre>print (list(inventory.keys()))</pre>						
	c. print (inventory.update({'pen':23})						
	d. print (inventory.popitem())						
	e. print (inventory.fromkeys(['sample paper', 'stamp'],(60))						



SET-B

M.M.:70

Time: 3 Hrs . General Instructions:-

Q.N.	Questions	Marks					
1	State True or False.	1					
	The extension of a python file is .pt.=>False .py						
2	Which of the following operator gives output 1 when both inputs are 1	1					
	(b) AND						
3	What will be the output of the following Python code?	1					
	d = {0: 'One', 1: 'Two', 2: 'Three'}						
	for x in d:						
	print (d[x])						
	(b) One Two Three						
4	What will be the output of the following code?	1					
	D1={1: "One",12: "Two", 13: "C"}						
	D2={12: "Four",5: "Five"}						
	D1.update(D2)						
	print (max(D1))						
	d) 13						
5	This function converts all uppercase letters in string to lowercase letters and vice versa	1					
	(b) swapcase()						
6	What is the output of the following code?	1					
	T1=(70,56,"Hello",22,2,,"Hi","The","World",3)						
	print (t1 [:4])						
	(d) (70,56, 'Hello', 22,2)						
7	Which of the following is/are valid identifier in Python?	1					
	b.pie c. For dschool						
8	Identify the statement with an error in the code given below::	1					
	str= "Swatch Bharat" #statement 1						
	x=3 #statement 2						
	print(str+x) #statement 3						
	print(str*3) #statement 4 c) statement 3						
-							
9	Identify the application software from the software mentioned below :	1					
1.0	d. Spreadsheet						
10	NOR gate is constructed by using OR gate followed by	1					
	(d) NOT gate						
11	Which index number is used to represent last 3^{rd} character of string of n characters?	1					
	(d)-3						
12	Concatenation operation is performed on string with the use of	1					
4.6	(c) +						
13	Is the following Python code valid?	1					
	>>>tup1=(56, 25, 36, 15)						
	>>>result=tupl+(5)						
	(b)No, because of wrong syntax						
14	What is the output of following code? $t = (4,0, 'Hello', 90, 'Two', ('One', 45), 34, 2)$	1					

	t1=t [-2]+t [-	1]						
		-1]						
	print (t1)							
15	(d) 36		4 . £ 41 1	1 1				1
15	Predict the c	orrect outpu	t of the cod	e given belo	ow:			1
	a = 10							
	b =3.4							
	c =2							
	a -=b							
	a *=3+c							
	$b += a^{2}$							
	b = b//2							
	print(b)							
	b. 34.0							
16	Select the co			:				1
	t1="Learn te		omorrow"					
	d=t1.split('L	.ead')						
	print(d)							
	d. ('Learn to							
	Q17 and 18 a	are ASSERT	TON AND	REASONI	NG based que	stions. Ma	ke the correct	
	choice as							
					xplanation for			
	b. Both A and	d R are True	and R is no	ot the corre	et explanation	for A.		
	c. A is True b	out R is Fals	e.					
	d. A is False							
17	Assertion(A): Substring	and string s	slices of a s	tring are not t	he same th	ough both of	1
	them refer to	the subpart	s of the stri	ngs				
	Reason(R) :	A substring	contains co	ntinuous su	bpart(s) of the	e string wh	ereas string	
	slices may or	r may not co	ntain conti	nuous subpa	urt(s) of a strin	ng.		
	Answer a.							
18	Assertion (A	A) A list can	be a key of	a dictionar	у.			1
	Reason (R) A	A list is a mu	itable data t	ype.				
	Answer d							
			Se	ection B(2X	(7=14)			
19	Define sort a	and sorted fu				nple		2
	Define sort and sorted function with the help of suitable example $L=[34,5,7,6,23,11]$							
	L.sort() will		elf					
	L1=sorted(L							
	L will remain	n same L1 w	vill be sorte	d				
20	State and prove associative law with the help of truth table							2
	Α	В	С	A + B	(A + B) + C	B+C	A + (B + C)	
		0	0	0	0	0	0	
	0	0	1	0	1	1	1	
		1	0	1	1	1		
	0	1	1	1	1	1		
	1	0	0	1	1	0	1	
	1	0	1	1	1	1		
	1	1	0	1	1	1	1	
	1	1	1	1	1	1	1	
21	$a = \{\}$				2			
-1	$\begin{bmatrix} a & 0 \\ a & 1 \end{bmatrix} = 1$							-
	۲ [۲] ۳							1

a $[11] + -1$ s=0 for in a: s=s+a[j] print(s)2Amsi222Find the errors. L1=[2,4,5,9] L2=L1*3 L3=L1+*3* L3=L1, pop ()223Predict the output. L1 = [3,2,4,5,9,11,2,2,27] print (L1 cout (2)) print (max (L1)> len (L1)) 3 True224Convert the following: a. (AB)) he (2475) ho b. (1011110,110) ho =(276.6) ha 225a. Do the following memory conversion 2X2 ¹⁰ TB = $2X^{20}$ KB b. Prove the following quality ((A,B)', (A,B)')' ((A'B')', (A'B')') (A'B')(A'B')' (A'B')(A'B')			
$ \begin{array}{ c c c c c } & s=0 & & & & & & & & & & & & & & & & & & &$			
$ \begin{array}{ c c c c c } & s=s+a[i] & s=$		s=0	
print(s)print(s)Ans:42Find the errors. L1=[2,4,5,9] L2-L1*3 L3-L1+** L4+L1.pop()223Predict the output. L1 - [3,2,4,5,9.11,2,2 27] print (L1 count (2)) print (max (L1)> len (L1)) 3 True224Convert the following: a. (9AB)1c=(2475)10 b. (1011110.110)=(276.6)8225a. Do the following memory conversion $2X2^{10}$ TB = $2X2^{10}$ KB b. Prove the following quality $((A,B)^*(A,B)^*)^*((A,B))^*((A,B,B))^*((A,B))^*(($		for i in a:	
Ans.422Find the errors.2L1=[2,4,5,9]2L2=L1*3L3=L1+************************************		s=s+a[i]	
Ans.422Find the errors.2L1=[2,4,5,9]2L2=L1*3L3=L1+************************************			
22Find the errors. $L1=[2,4,5,9]$ $L2=L1*3^{\circ}$ $L3=L1*3^{\circ}$ $L3=L1*3^{\circ}$ $L4=L1$. pop ()223Predict the output. $L1=[3,2,4,5,9.11,2,227]$ print (L1 count (2)) print (max (L1)> kn (L1)) 3 True224Convert the following: a. (9AB) ₁₆ =(2475) ₁₀ b. (1011110.110)=(276.6) ₈ 225a. Do the following memory conversion $2X2^{10}$ TB = $2x2^{20}$ KB b. Prove the following equality $((A.B)^{1}+(A.B)^{1})^{-}(A.B)$ $((A.B)^{1})^{-}(A.B)^{1}((A'B')^{1})^{-}(A.B)$ $((A.B)^{1})^{-}(A.B)^{1}((A'B')^{1})^{-}(A.B)$ $((AB)^{1}(A'B')^{1}(A'B')^{1})^{-}(A.B)$ $(AB)^{-}(A'B')^{-}(A'$		1 ()	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	22		2
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			2
$ \begin{array}{ c c c c c } L3=L1+"$" & L4=L1, pop () \\ \hline L4=L1, pop () \\ \hline L3 & Predict the output. \\ L1=[3.2, 4, 5, 9, 11, 2, 2, 27] \\ print (L1 count (2)) \\ print (max (L1)> len (L1)) \\ 3 & True & & & & & \\ \hline True & & & & & & \\ \hline True & & & & & & \\ \hline 24 & Convert the following: \\ a. (9AB)_{16}=(2475)_{10} & b. (1011110.110)_{2}=(276.6)_8 & & & & \\ b. (1011110.110)_{2}=(276.6)_8 & & & & \\ \hline 25 & a. Do the following memory conversion & 2X^{20} TB = & 2X^{20} KB \\ b. Prove the following equality ((A.B)'+(A.B)')^*((A.B)')$			
L4=L1. pop ()23Predict the output. L1 = [3.2, 4, 5, 9. 11, 2, 2.27] print (L1 count (2)) print (max (L1)> len (L1)) 3 True224Convert the following: a. (9AB) ₁₆ = (2475) ₁₀ b. (10111110.10) ₂ =(276.6)s225a. Do the following memory conversion $2X2^{10}$ TB = $2x2^{40}$ KB b. Prove the following equality ((A.B)'+(A.B)')=(A.B) ((A.B)')(A'+B')'(A'+B')' (A'+B')'(A'+B')' (A'+B')'(A'+B')' (A'B)(AB)=AB226What will be the output of the Python code given below: list=[20,21,35,47,55] s=0 for x in list: if x%2==0: s=s+(3*x) elist: elist: s=s-x print(s) ams=34327Write a program in Python to input a sentence and display each word starting with vowel S=input("enter string") W=s.split() for a in W: if a in "aeiou": print(a)328Write a flowchart to print reverse of a 5 digit number and show whether its palindrome3			
23Predict the output. L1 = [3.2, 4, 5, 9, 11, 2.2 27] print (LL count (2)) print (max (L1)> len (L1)) 3 True224Convert the following: a. (9AB), loc (2475), 0 b. (10111110.10)_{2=}(276.6)_8225a. Do the following memory conversion $2X2^{10}$ TB = $_{2}X2^{20}$ KB b. Prove the following equality ((A.B)'+(A.B)')'=(A.B) ((A.B)'+(A.B')')(A'-B')' (A'B.B')AB226What will be the output of the Python code given below: list=[20,21,35,47,55] s=0 for x in list: if x%2=0: s=s+(3*x) elist %%3=0: s=s-x print(s) ans=34327Write a program in Python to input a sentence and display cach word starting with vowel S=input("enter string") W=s.split() for a in W: if a in "aeiou": print(a)328Write a flowchart to print reverse of a 5 digit number and show whether its palindrome3			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			
print (Ll. count (2)) print (max (L1)> len (L1)) 3 True224Convert the following: a. (9AB)16= (2475)10 b. (10111110.10)2=(276.6)8225a. Do the following memory conversion $2X2^{10}$ TB = $2x2^{40}$ KB b. Prove the following equality ((A.B)'+(A.B)')=(A.B) ((A.B)'+(A'+B')')=(A.B) ((A'+B')'(A'+B')') (AB).(AB)=AB226What will be the output of the Python code given below: list= $[20,21,35,47,55]$ s=0 for x in list: if $x^{4/3}$ ==0: s=s+(2*x) else: s=s-x print(s) ans=-34327Write a program in Python to input a sentence and display each word starting with vowel S=input("enter string") W=s.split() for a in W: if a in "aciou": print(a)328Write a flowchart to print reverse of a 5 digit number and show whether its palindrome3	23	•	2
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28 Write a flowchart to print reverse of a 5 digit number and show whether its palindrome 3			
	20		2
	28		3
		or not	

	START Read num reverse = 0 tempNum = num Ves rem = num % 10 reverse = 10 + rem num = num / 10 Ves reverse = tempNum No No No No No No No No No No	
29	Write a python program to find the sum of series $x+x^2+x^4+x^6+x^8+x^N$ s=0 y=int(input("onton y"))	3
	x=int(input("enter x"))	
	n=int(input("enter n")) for i in range(1,n+1,2):	
	s=s+math.pow(x,i)	
	print(s)	
30	Observe the following python code and find the possible output(s) from the possible output(s) from option (a) to (d). Also, write the minimum and maximum values that can be possibly assigned to variable 't'. import random display=("A", "O", "M", "C") s=random.randint(1,3)	3

	Section D(4X2=8)						
31	a.Given a string s=" I love Python very much"	4					
	Write a statement to produce the following output:						
	(i) very=>str= s.spliit()						
	str[3]						
	(ii) ("I", "love", "Python very much")						
	Str.partitiion("love")						
	(iii) print reverse of the entire string						
	s[-::1]						
	(iv) print first five characters s[:5]						
	b. Rewrite the following while loop into its equivalent for loop						
	x="Today is my computer exam"						
	i=0						
	while $i < len(x)$:						
	print(x[i])						
	i=i+2						
	for i in range (0,len(x),2):						
	print(x[i])						
32	a. Write python statements to do the following by using library function and	4					
	importing appropriate library module in python:						
	i. To print median of the list $l=[1,2,3,1,2,4,5,1,5]$						
	Import statistics						
	Statistics.mean(l)						
	ii. To get list of every word of string						
	W=String.split()						
	b. Write a python code to shuffle the elements of a given list using random module						
	import random						
	random .shuffle()						
	Section E(5X3=15)						
33	Observe the code and write the output.	5					
	(i) 'Arihant publication'. title() =>'Arihant Publication'						
	(ii) 'arihant publication'.swapcase()=>ARIHANT PUBLICATION						
	(iii) 'arihant publication'. starts with ('ari.') => True						
	(iv) 'Arihant Publication'. find ('ant')=>4						
	(v) 'Arihant Publication' .index('Hant')=> False						
34	(i)Write the short note on	2					
	(a) append() (b) extend()						
	L=[1,4,3,2,5,6]	2					
	L2=[6,7,8]	3					
	Append is used to add mutiple elements as a single element						
	1.append(L2)						
	L1=(1,4,3,2,5,6,[6,7,8]) Extend is used to add multiple element as a multiple elements in list						
	Extend is used to add multiple element as a multiple elements in list L1.append(L2)						
	L1=(1,4,3,2,5,6,6,7,8)						
	(ii) Write a Python program to find the sum of odd numbers and sum of even numbers						
	present in a list and display both answers						
	def sum():						
	e=0						
	o=0						
	l=eval(int(input("enter list"))						
	for a in 1:						
L							

	if a %2==0:	
35	Consider the following commands being run in sequence for the dictionary and give the output accordingly: inventory= {'Pen':20, 'Eraser':50, 'pencil': 50, 'paint brush':30} a. print (inventory['Eraser'])=> 50 b. inventory['notebooks']=25 ['Pen', 'Eraser', 'pencil', 'paint brush', 'notebooks'] print (list(inventory.keys())) c. print (inventory.update({'pen':23}) {'Pen':23, 'Eraser':50, 'pencil': 50, 'paint brush':30} d. print (inventory.popitem())=>'paint brush':30 e. print (inventory.fromkeys(['sample paper', 'stamp'],(60)) {('Pen':23, 'Eraser':50, 'pencil': 50, 'paint brush':30,'sample paper':60, 'stamp':60}	5