ONLINE TERM1 EXAMINATION 2020-21 CLASS XII COMPUTER SCIENCE

Max:Marks:40

SECTION A

1.	. Whic	h of the following is valid arithmetic operator in Python:?	1				
	(i)	// (ii) ? (iii) < (iv) and					
2.	. Suppose list1 is [3, 4, 5, 20, 5, 25, 1, 3], what is list1 after list1.pop(1)?						
	(i)	[3, 4, 5, 20, 5, 25, 1, 3]					
	(ii)	[1,3,3, 4, 5, 20, 5, 25]					
	(iii)	[3, 5, 20, 5, 25, 1, 3]					
	(iv)	[1, 3, 4, 5, 20, 5, 25,]					
3.	Which	of the following is not a valid identifier?	1				
	i):	nonlocal (ii) false (iii) my_sql (iv) eval					
4	. Which	of the following function is not part of Pickle Module.	1				
	i)o	dump() ii) load() iii) print() iv) All of these					
	functio i) ii)	the python library modules which need to be imported to invoke the foll ons: floor() random() the following python code after removing all syntax error(s). Underline	1				
C	orrection	ns done.	2				
	W=rav	w_input('enter a word')					
	If W <	>'HELLO'					
	print	t W+2					
	else						
	р	rint W*2					
7. O	ut of the	e following, find the identifiers, which cannot be used for naming Varial	ole or				
F	unction	is in a Python program:	2				
		_Cost, Price*Qty, switch, Address one, Delete, Number12					
8. Pre	dict the	output of following code snippet:	1				
I	_st = [10	0,20,30,40,50,60,70,80,90]					
I	orint(Ls	t[::3])					

9. Write the output of the following program on execution if x=80.

x=80	
if x>60:	
if x>25:	
print("Good")	
if x>90:	
print("Better")	
elif x>40:	
print("Best")	
else:	
print("Invalid Output")	

10. Study the following program and select the possible output(s) from the options (i) to (iv)

following it. Also, write the maximum and the minimum values that can be assigned to the variable Y.

import random

X= random.random()

```
Y= random.randint(0,4)
```

print (int (X),":", Y+ int(X))

```
i) 0 : 0 ii) 1 : 6 iii) 2 : 4 iv) 0 : 3
```

11: Find the output of the following code:

2

```
def showme(M,N):
for I in range(N):
if M[I]%5==0:
M[I]//=5
if M[I]%3==0:
M[I]//=3
Val=[25,8,55,12]
showme(Val,4)
for N in Val:
print (N,'#')
```

2

12.Find the write the output of the following python code (show the dry run chart): 2 def evaluate(A=40,B=50):

A=A+B

B=A-B

print (A,'@',B)

return A

P=100

Q=150

P=evaluate(P,Q)

print (P,'@', Q)

Q=evaluate(Q)

print (P,'@', Q)

13.Write a function definition ChangeEvenOdd(Num,N) in Python which should add 1 to every even number and subtract 1 from every odd number. The function should finally display the changed content of the list Num.

25	12	5	10	9	5	15	9	5	12
		-		-	-		-	-	

The function should display the output as follows:

24	13	4	11	8	4	14	8	4	13
	10	•		v	•	••	v	•	10

14.Write a function for python PUSH_VALUE(list) and POP_VALUE(list) for performing PUSH and POP operations with a stack of list containing integers. The function must check for empty stack.

15.Write a python function Swapwords(word) to swap first part and second part of the string word. Assuming that there are even number of letters in the string word. The function should display the changed word.For example if word="Elephant" the function should convert the word to hantElep and display the output as: 2

Changed word is:hantElep

OR

Write a Python program to calculate the length of a string.

16. 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. 2

OR

A text file named AGENCIES.TXT contains some text. Write the definition for function Showsites() in Python which displays all such words of the file which have more than 9 characters and start with 'www'.

For example Name:"technocraft",Website:www.technocraft.com

The function showsites should display as "www.technocraft.com"

17. Write the definition for function BILLING () in python to read each record of pickled 2 file STOCK.DAT, where Price of the items are more than 1000.(ITEMNO,NAME AND PRICE).

SECTION B

4.	(a)	Which SQL command is used to add a new attribute in a table ? 1	
	(b)	Which SQL aggregate function is used to count all records of a table ?	
	(c)	Which clause is used with a SELECT command in SQL to display the records in ascending order of an attribute ? 1	
	(d)	Write the full form of the following abbreviations : 1	
		(i) DDL	
		(ii) DML	

(g) Write outputs for SQL queries (i) to (iii), which are based on the following tables, CUSTOMERS and PURCHASES :

able : CU	STOMERS		Table : PURCHASES				
CNAME	CITIES	SNO	QTY	PUR DATE	CNO		
SANYAM	DELHI	S1	15	2018-12-25	C2		
SHRUTI	DELHI	S2	10	2018-11-10	C1		
MEHER	MUMBAI	S 3	12	2018-11-10	C4		
SAKSHI	CHENNAI	S4	7	2019-01-12	C7		
RITESH	INDORE	S 5	11	2019-02-12	C2		
RAHUL	DELHI	S6	10	2018-10-12	C6		
AMEER	CHENNAI	S7	5	2019-05-09	C8		
MINAKSHI	BANGALORE	S8	20	2019-05-09	C3		
ANSHUL	MUMBAI	S9	8	2018-05-09	C9		
		S10	15	2018-11-12	C5		
		S11	6	2018-08-04	C7		
	CNAME SANYAM SHRUTI MEHER SAKSHI RITESH RAHUL AMEER MINAKSHI	CNAME CITIES SANYAM DELHI SHRUTI DELHI MEHER MUMBAI SAKSHI CHENNAI RITESH INDORE RAHUL DELHI AMEER CHENNAI MINAKSHI BANGALORE	CNAMECITIESSNOSANYAMDELHIS1SHRUTIDELHIS2MEHERMUMBAIS3SAKSHICHENNAIS4RITESHINDORES5RAHULDELHIS6AMEERCHENNAIS7MINAKSHIBANGALORES8ANSHULMUMBAIS9S10	CNAMECITIESSNOQTYSANYAMDELHIS115SHRUTIDELHIS210MEHERMUMBAIS312SAKSHICHENNAIS47RITESHINDORES511RAHULDELHIS610AMEERCHENNAIS75MINAKSHIBANGALORES820ANSHULMUMBAIS98S1015	CNAMECITIESSANYAMDELHISANYAMDELHISI15SHRUTIDELHIMEHERMUMBAISAKSHICHENNAISAKSHICHENNAIRITESHINDORERAHULDELHIAMEERCHENNAISAMERCHENNAISAMERCHENNAISAMULSAMGALORESI15SI2018-05-09SI015SI015		

(i) SELECT COUNT (DISTINCT CITIES) FROM CUSTOMERS;

(ii) SELECT MAX (PUR_DATE) FROM PURCHASES;

(iii) SELECT CNAME, QTY, PUR_DATE FROM CUSTOMERS, PURCHASES WHERE CUSTOMERS.CNO = PURCHASES.CNO AND QTY IN (10,20);

(h)

- Write SQL queries for (i) to (iv), which are based on the tables : CUSTOMERS and PURCHASES given in the question 4(g):
- 4

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- To display details of all CUSTOMERS whose CITIES are neither Delhi nor Mumbai.
- (ii) To display the CNAME and CITIES of all CUSTOMERS in ascending order of their CNAME.
- (iii) To display the number of CUSTOMERS along with their respective CITIES in each of the CITIES.
- (iv) To display details of all PURCHASES whose Quantity is more than 15.

18.

