Total No. of Questions – [3]

C

Total No. of Printed Pages: 4

G.R. No.		PAPEF	CODE UIII-	202
COURSE N	<b>F.Y. B. T</b>	21(INSEM+ END ECH. (SEMEST ON FOR ENGIN 02B	ER - I)	
<ol> <li>Figures to</li> <li>Use of sci</li> </ol>	(PATTE s to candidates: o the right indica entific calculato: ble data where ev	r is allowed	[Max. Mark	xs: 60]
Solve the follow	wing			[30
strOne = strTwo = print(strO	ct output of the follow str("pynative") "pynative" ne == strTwo) ne is strTwo)	ving String operations.		[2]
A.false false	B.true true	C.true false	D.false true	
	rect way to access val range", [10, 20, 30], (5	ue <b>20</b> from the followi 5, 15, 25))	ng tuple	[2
A.aTuple[1:2][1]	B. aTuple[1:2](1)	C. aTuple[1:2][1]	D.aTuple[1][1]	
		y_value pair for key="Mo pit":"domestic","duck":"c		[
A.del dic["Monkey C.delete(dic.[" Mo	· · · · · · · · · · · · · · · · · · ·	ic["Monkey r"].delete() el(dic.[" Monkey "])		
	tput of the following 'PYnative', ('abc', 'xyz' )			
A. {'PYnative', 1, ( C. {'PYnative', 1, (	'abc', 'xyz'), True} ('abc', 'xyz')}	B.TypeError D.None		
myString stringList	rect output of the follo = "pynative" = ["abc", "pynative", " ngList[1] == myString)	wing String operations		[:

A. Hello foo and b C. Error	oin	B. Hello bin D. None of t	and foo the mentioned	
vii). What is the c s1={5,7,2} s1.add(7) print(s1)	output of the f	ollowing?		
A. {2,5,7} C. Error as there	is no add fun	ction in set data typ	B. {5,7,2,7} De D. Error as 7 already exist	t in the set
viii) What is the d1={1:"ABC d1.clear() print(d1)	output of the ",2:"XYZ",3:"P			
A. {} C. {1:None,2:Non	e,3:None}	B. None D.Type Error		
ix) What comma	nd is used to	insert 6 in a list "L"	at 3 <sup>rd</sup> position ?	
A. L.insert(2,6) C .L.add(3,6)		B. L.insert(3,6) D. L.append(2,6)		
hair_color = " if 3 > 2: if hair_col	blue" or == "black": ou rock!")	e print to the conso	le?	
A. blue	B. black	C. Boring	D. You rock	
xi) What is the o for num in ra print(num,	nge(-2,-5,-1):	ollowing for loop and	1 range() function	
A2, -1, -3 C2, -1, 0	, -4	B2, -1, 0, 1 D2, -3, -4,		
i=0 while i<3 print(i) i +=1 else:		the following Pytho	n code?	
print(0 A. 0 1 2 3 0 C. 0 1 2		B. 0 1 2 0 D. error	Þ	
	ame is James	of the following Stri bond";	ng operations	

B. TypeError: unsupported C. My name is james bond D. none of these

xiv) What is the output of the following code str1 = "My salary is 7000"; str2 = "7000" print(str1.isdigit()) print(str2.isdigit())

n. raise frac D. raise raise	A. F	False	True	В.	False	False	
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C. True False D.True True

[2]

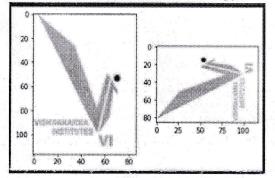
[5]

[5]

xv) Suppose list1 is [4, 2, 2, 4, 5, 2, 1, 0], Which of the following is correct syntax for [2]
slicing operation?
A. print(list1[0])
B. print(list1[:2])
C. print(list1[:-2])
D. all of the mentioned

## Q2.Solve any three out of four

- a) Describe broadcasting in NumPy, state different rules in broadcasting with example and code? [5]
- b) Write a NumPy program to get the following expected output of [5] an array values element-wise.
  arr1=[7,8,11] arr2=[4,3,3] Expected output
  A = [2401 512 1331] B= [3 2 2]
- c) Differentiate between Python list and NumPy array? Write a code to create 1D,2D and 3D array
- d) Observe the output figure. Write a python code for obtaining this output. [5]



#### Q3.Solve any three out of four

a) Write a Python program to append text to a file and display the text

Input file:

At the end of the day, whether or not those people are comfortable with how you're living your life doesn't matter. What matters is whether you're comfortable with it.

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Append with following lines:

Life has got all those twists and turns. You've got to hold on tight and off you go.

b)Explain readline() and readlines() function. Write a python program to print the last two [5] lines of a file

## Input file:

Nothing is impossible. The word itself says I'm possible!' There is nothing impossible to they who will try. Keep your face always toward the sunshine, and shadows will fall behind you.

# c) Write the symbols and explain in detail the modes used in text file for the following operations.

- Read Only a)
- Write only b)
- Read and Write c)
- Write and Read d)
  - What is the difference between write and append mode?
- d) Write a python program to count 'the' and display the total number of lines from [5] the file.

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[5]

### Input file:

People tell you the world looks a certain way. Parents tell you how to think. Schools tell you how to think. TV. Religion. And then at a certain point, if you're lucky, you realize you can make up your own mind.

Nobody sets the rules but you. You can design your own life.