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PES UNIVERSITY

UE18CS101

End Semester Assessment (ESA) B. Tech. 1st SEMESTER – Aug - Dec-2018 UE18CS101 - Introduction to Computing Using Python

Time:	3 Hrs. Answer All Questions Max Marks:	100
a)	Say True or False for the following. i) An operating system is the part of the hardware that controls all other hardware components of a computer system. ii) Most programs are written in machine code because this is the only thing the CPU can process. iii) Any algorithm that correctly solves a given problem must solve the problem in a reasonable amount of time; otherwise it is of limited practical use. iv) An identifier in Python is a sequence of one or more characters that must begin with a letter or a digit. v) Unary operators are applied to a single operand.	5
b)	Evaluate the following expressions: I) a = 12; b = 5; print(a b) ii) x = 5; print(x << 2, x >> 2) iii) print(3 ^ 3 ^ 3) iv) x = 0; y = 10 i) print(x == 0 and y// x > 5) ii) print(x == 0 or y// x > 5)	5
c)	<pre>What gets printed? i)</pre>	4
d)	A website requires the user to input username and password to register. Write a python program to check the validity of password input by the user. Following are the criteria for checking the validity of the password: i. At least 1 letter between 'a-z' iii. At least 1 number between '0-9' iii. At least 1 letter between 'A-Z' iv. At least 1 character from '\$#@' v. Minimum length of transaction password: 6 password: 12 case 1: case 2: input: ABd1234@1 output: valid	6

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2	a)	Write a python program to print the following pattern. abcd bcd cd d	5
_	b)	What is the output? i) list1 = $[10,20,30,40]$ list2 = $[10,20,30,40]$ list1[0] = 100 print(list2) iii) iv)Output not in particular order $d = dict(1)$ t[0] += $[55,66]$ iii) for i in range(1, 4):	6 (1+1+ 1+3)
	c)	print(t) d['a' + str(i)] = 'a' * i print(d) Write the output(not in particular order.) s1 = set(range(5)) s2 = set(range(0, 10, 2)) s3 = s1 - s2; print(s3) s4 = s2 - s1; print(s4) s5 = s3 & s4; print(s5) s6 = s3 s4; print(s6) With a given integral number n, write a program to generate a dictionary that contains i:i*i such that is an integral number between 1 and n (both inclusive).	5
	a)	and then the program should print the dictionary. If n=6, then the output sould be {1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36} Write the output for the following:- i) ii) def f1(x):	5 (2+3)
3		$\begin{array}{lll} \text{def list1(val, list=[]):} & \text{def f1(x):} \\ & \text{list.append(val)} & \text{for k in range(0, len(x)):} \\ & \text{return list} & \text{if } x[k] < 0: \\ & & x[k] = 0 \\ \\ \text{lst1} = \text{list1(10)} & \text{return sum(x)} \\ \text{lst2} = \text{list1(123,[])} & \text{y} = [15, -7, 5, 2, -6, -1] \\ \text{print(lst1)} & \text{total} = \text{f1(y)} \\ \text{print('total} = ', total) \\ & \text{print(y)} \end{array}$	
	b) c)	Write a Python program to calculate the value of a to the power b using recursion. Define a function that can accept two strings as input and print the string with maximum length on to the console. If two strings have the same length, then the function should print both the strings.	5

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d)	Complete the # todo part of the function definition to get the desired output. Input: num_dict={1:[100,1,1003],3:[300,3,1002],2:[200,2,1001]}	5
	<pre>def sort_dict(d): # todo function definition to return a sorted dictionary based on the last element of the list which is used as the value for the given key . num_dict={1:[100,1,1003],3:[300,3,1002],2:[200,2,1001]} print(sort_dict(num_dict))</pre>	
a)	What is the output ? i) $a = [1,2,4,1,2,3]$ $s = set(a)$ $def check(n)$: $x = 'abcd'$ $print(list(map(list, x)))$	6 (2+2+ 2)
	if n in s: return True else: return False print (filter(check, a))	
	iii) Write a code to determine the maximum element in a given list containing values using reduce.	
b)	i) Find all numbers which are odd and which are palindromes between a pair of numbers between 20 and 100 (both inclusive).	6 (3+3)
	ii)Create a list of numbers and a list of strings. Both the lists are of same size. Combine two lists to make a list of tuples.	
	<pre>Write the output for the following. def G_fun(n): i=0 while i<=n: if i%2==0: yield i i+=1 n=10 values = [] for i in G_fun(n): values.append(str(i))</pre>	3
	a) D)	Complete the # todo part of the function definition to get the desired output. Input: num_dict= {1:[100,1,1003],3:[300,3,1002],2:[200,2,1001]} Expected output: {2:[200,2,1001],3:[300,3,1002],1:[100,1,1003]}

d)		SRN	
	i) Explain 4 ways of imposition the output when a File: abc.py print("this is with in abc.print('abc',name)	.py is executed as python a.py.	5 (2+3)
	File: a.py print("this is with in a.py" a=10 def f1(): print("this is function import abc print('a',name)		
a)	Square takes length as	be named Shape. Derive a type Square from Shape. The an argument. Add a function area() in both the types. ult.Write the implementation for the following interface.	8
b)	I)Explain the following.		6 (3+1+
	i) try: ii) except iii) II) What is the output for i) def f(): try: return 1 finally:	finally the following code? ii. try: if '1' != 1: raise "someError" else:	2)
	return 2	print("someError has not occured")	
	k = f()	except "someError":	

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PES UNIVERSITY

UE17CS101

End Semester Assessment (ESA) B. Tech. 1st SEMESTER – Aug - Dec-2017 UE17CS101 - Introduction to Computing Using Python

ime: 3 ł	drs Answer All Questions	Max Marks: 100
		5
	ndicate the output or reason for error if any.	
	print("text)	
	print("25" / "5")	
	a = 10; b = 0; print(str(a) * b) a = 10; b = 10; print(a === b)	
<u> </u>	a = 10; print(++a)	5
b	Find the output in each case. x = 100; $y = x$; $y = 200$; print(x)	
- - .	y = (100, 200); $y = x$; $y = [300, 400]$; print(x)	
1 1	$y = (100, 200) \cdot y = x$; y.extend([300, 400]); print(x)	
	x = [100, [200]]; y = x; y[0] = [300, 400]; print(x)	
	x = [100, 200]; y = x; y += [300, 400]; print(x)	5
I I	Evaluate these expressions.	
	5 == 5 == 5	
	(2 + 3, 3 + 2) * 2	
	2 * "25"	
\ \	True and True or not True	
	5 in range(5)	5
d	Find the type of the following expressions if the expression is valid.	
	Otherwise indicate the error.	
	(-25) ** 0.5	
	"pes"[1]	
	${"x": 25, 25: "y"}[25] == 'x'$	1
	()	
	sel({})	
- 1 - 1	(" (" (" toro number"))	5
2 a	n = int(input("enter a number:"))	
'	s = 0	
1	while n: if n % 2:	
	s += 1	
	η >>=]	
Ì	print(s) Find the output for the following inputs	
- [i) 25	
	ii) 15	
	What does the program do?	
- 	Write a program to find the biggest number in the geometric progression with start value	a 5
Ь	and common ratio r less than a given number n.	
	and common ratio i less than a given rismos in	
	Inputs are a, r and n. Hint: geometric progression has the terms a, ar, ar ² ar ³	
	Hinr. Sequiettic bioRiession has the totals at at at an	

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_	С	n = int(input("enter a number:"))	5
	•	i = 2	
		while n > 1:	
		while n % i == 0 :	
		print(i, end = "")	
		n //= i	
		i +=	
		print()	
		Find the output for the following inputs.	
		i) 54	
		ii) 24	
		What does the program do?	
	d	Write a program to generate the following pattern for a given value of n.	5
		If $n = 4$, then the expected output is:	
		4 4 4 4	
		4333	
1		4322	
		4 3 2 1	
	L		
3	a	Find the output.	4
		a = []	
		for i in range(4):	
		a.append([])	
		for j in range(i + 1):	
		a[i].append(j * j)	
		print(a)	
	b	Write a program segment to achieve the following.	5
		Create a dictionary of lists given two lists.	
		Input:	
		a = ['karnataka', 'tamilnad', 'karnataka', 'karnataka', 'tamilnad', 'kerala']	
		b = ['mysore', 'chennai', 'hassan', 'shimoga', 'madurai', 'trivandrum']	
		output;	
		d = {	
		'karnataka' : ['mysore', 'hassan', 'shimoga'],	
		'tamilnad' : ['chennai', 'madurai'],	
		'kerala' : ['trivandrum']	
		}	
	С	Find the resultant set. Display the elements.	5
		i) set("1234")	
		ii) set(("1234"))	
		iii) set(("12", "34"))	
		iv) set(set("1234"))	
		v) set("12" + "34")	
	d	Write a program to decode ['m', 'i', 's', (2, 1), (1, 1), (2, 3), 'p', (8, 1), (1, 1)] as mississippi.	6
	"	If it is a character, that itself is the decoded form.	
		If it is a tuple, in the decoded string so far, the first is the position and the second is the length of the	
		string.	
	_1		

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	- 1	ex: decoded string: empty	
	ļ	m => m	
	- 1	i => mi	
İ		s => mis	
		(2, 1) => miss # char in position 2 which is s repeated once	
		(1, 1) => missi	
		(2, 3) => mississi # string in position 2 of length 3 from the previous decoded string: ssi	
4	a	Write a function that accepts a comma separated sequence of words as argument and returns a string which contains the words in a comma-separated sequence after sorting the words alphabetically. def foo(s):	4
ļ	1	pass # TODO	
		For Ex: foo("hi,how,are,you?") should return "are,hi,how,you?"	
H	b	def foo(x, y):	4
1	١	z = 0	
		for i in x:	
l		for j in y:	
İ		z += 1	
-		return Z	
ĺ		What happens in the following calls?	
		print(foo((1, 2, 3), (4, 5)))	
		print(foo({ 10 : "ten", 20 : "twenty" }, { 30 : "thirty" }))	
ŀ		Given two lists of integers a and b, write single liners to achieve the following.	6
ļ	С	i) Check whether the sum of the elements of a is greater than the sum of the elements of b.	
		Evaluate to True if this condition is True otherwise False.	
		ii) Generate a list of integers complementing each element in the given list with respect to 100, if the	
		element in a is 25, the corresponding element in the resultant list should be 75. iii) Generate the product of all elements of the list a	
		Indicate no output or actual output for each of the statements following the class definition.	6
	d		
		class A:	
		def_init_(self):	
	i	print("ctor")	
		defdel(self):	
	ļ	print("dtor")	
		x = A()	
		y = x	
		z = A()	
		del x	
	İ	y =	
		x = 222	
5	a	i) Use list comprehension to walk through a list of points - each point expressed as a pair of coordinates and find all the points in the first quadrant excluding those on the axes.	3
l 		ii) Find the output when test.py is executed as python test.py.	3
	}	File: abc.py	
		print('three:',name)	
ļ	1		

	SRN []]		
	File: test.py		l
	print('one')		
	import abc		
	print('two:',name)		
1_	What is the output with and without the statements marked X?	,	4
b	·		
	def foo():		
	try: print("ondu")		
	print(ondi) print(gottilla)		
}			ļ
	print("eradu")		
	except NameError: #X		
	print("moeru") #X		
	except KeyError:		
	print("nalku")		
	print("idu")		
	print("three")		
	foo()		
	print("aaru")	+	
c	If f1 and f2 are file objects opened for reading, what would the following expression give?		3
	set(f1) and set(f2)	 	
d	i) Find the output.	3	+ 4
	class A:		
	defiter(self):		
	self.x = 0		
	return self		
	defnext(self):		
	self.x += 11		
	return self.x		
	a = A()		
	x = iter(a)		
	y = iter(a)		
	print(next(x))		
	print(next(y))		
	print(next(x))		
	ii) Find the output.		
	def gen():		
	while True:		
ŀ	yield True		
	yield False		
	g = gen()		
	for i in range(4):		
	print(next(g))		
 	Frankish (2)		

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PES University, Bangalore (Established under Karnataka Act No. 16 of 2013)

UE16CS101

DECEMBER 2016: END SEMESTER ASSESSMENT (ESA) B.TECH. I SEMESTER

UE16CS101- Introduction to Computing using Python

im	e: 3	Hrs Answer All Questions Max Marks: 1	
		Define the following	08
.	a)	i)Algorithm	
		li)Operating System	
١		iii)Moore's law	
Ì	1	iv)Limits of Computational problem solving	
-		Describe the steps involved for a program execution by using	04
1	b)		
1		i)Compiler	
		ii)Interpreter List two functions from each of the math and random libraries with an example to demonstrate the	04
	(c)		
		functions(total 4 functions)	04
	d)	i) Give the sequence of python steps required to produce today's date ii) Why is the id of two variables would be same for the values in the range -5 to 256 in the interactive	Ì
		ii) Why is the id of two variables would be same for the values in the values	1
		mode. Write a python script to find the mode for a set of n numbers read in an interactive manner.(Note:mode is	06
2.	a).		
		the number that occurs with the highest frequency)	04
	b)	What is the output of the following expressions	
		a)print("check:{a:10d}{b:10.2f}".format(b=455.678,a=235))	
		b)print(("%10x"%10)	ľ
	1	c)for i in reversed(xrange(1,10,2)):	1
	ļ	print i	1
		d)for i, v in enumerate(['tic', 'tac', 'toe']):	
		print i, v	04
	c)	a=16;b=12	"
		what is the result executing the following expressions(Assume 16 bit representation for the numbers)	
		i)a<<3 ii)a b iii)~b iv)a^b	06
	ď		100
	'	12=20; 3= 1; 4= 1.copy	
		import copy	
		(5-conv.doenconv(11)	1
١.		In all of the above expressions, comment on the ids referred by different variables with the help of a	1
		diagram.	-
-	3. a	List the characteristics of list and dictionary data structures	0
`	 -	i) List the characteristics of the characteri	1 0
	'	duplicate values.	
		ii) Given a string create a list of ordinal values from it.	-
1	- 1	lii) Write a program to concatenate three dictionaries to create a new one	- 1

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	τ_	Τ.	v) Write a program to convert a tuple of any type of data in it into a string	
	1	+-	antened extract each word and find if the word is in the pre-created dictionary as a way.	06
	(c)	1.	the crosent print its two synonyms which are present as dictionary values. If the work	
		"	n case the word is present, print to the word has to be added. If yes, read two synonyms and add them to	
1		Ι.	" " " and an olde give a suitable message.	
4.	a)		Describe the default and keyword argument parameter passing mechanisms available in python for	04
"	~	` .	the every loss	04
1	b	N 1	inUsing list comprehension, create a list of strings from the given list of strings such that the new list	
	1	1	contains only the strings which do not have punctuation marks in it.	
		- 1	a requirely a function that determines if a given number is divisible by seven or not.	04
1	C	» †	ii) write a rectusive function of the above i) $S = \{x^2 : x \text{ in } \{0 9\}\}$ and $M = \{x \mid x \text{ in } S \text{ and } x \text{ even}\}$. Use functional programming to do the above	
		1	II workfael euntriscion	
			mathematical expression ii)Describe with an example ways of Importing files residing in same and different directories.	08
	1,0	d)	i)Write a function implementing callback to check if the product of two consecutive Fibrillace sequence	
1			numbers is equal to the given number. Write a piece of code to test the functions	
-			ii)What is the output of the following piece of code	1 1
	Ì		def f1(x):	
١			def f(a):	
- }		}	nonlocal x	
	1		x=x+4	
	1		print(a,x)	
			x+=9	
1			print(x)	
			return f	
1			print(f1(8)(3))	
			iii)def f(a,b,c):	
- {	- 1		print(type(a),b,sum(c))	
			11=[3,4,5]	} }
1			12=[5,6,7]	
	1		13=zip(l1,12)	
	 i	1		06
	5.	a)	hank account holder entity, include suitable attributes (instance and discount	; 00
		ا	the class with the class design. Write test script to test the class with its instances.	06
		b)	to the exceptions. Write a script to read a list of numbers and produce an output list that	00
	1	"	the of dividing each number in the list by a factor n read from the user. If the value of it read is	
			the series a generic exception. In addition, the script must catch at least two types of specific	ŀ
			the relevant in this context. In case of no exceptions, the output list must be displayed.	108
		-	to read a file passed from the command line. The file contains both digits and approach	s. 08
			the separately to two different files. Subsequently modify the file containing digits as follows:	ry
			3rd digit must be added by a factor 2 and rewritten to the same place(assume all operations result in	
			single digits). At the end, display the contents of both the files	
	L_	_1_	Single digito, 7 th and	

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		1	1	-1	1 1	- 1	



PES University, Bengaluru (Established under Karnataka Act No. 16 of 2013)

UE15CS101

DECEMBER 2015: END SEMESTER ASSESSMENT B. TECH. I SEMESTER

UE15CS101 - Introduction to Computing using Python

Ti	me:	180 Mins Answer All Questions Max Mar	rks: 10
	а	Convert the following to base 10. Show all the steps. i. $(AA)_{12}$ ii. $(HA)_{23}$	4
1	b	What is in common within each of the following groups of binary numbers? i. values that end with a "0" digit (e.g., 1100). ii. values that end with a "1" digit (e.g., 1100). iii. values with a leftmost digit of "1," followed by all "0s" (e.g., 1000). iv. (d) values consisting only of all "1" digits (e.g., 1111).	4
	С	Write a Python program that allows the user to enter any integer base and integer exponent, and displays the value of the base raised to that exponent. Your program should function as shown below as an example. What base? 10 What power of 10? 4 10 to the power of 4 is 10000	4
	d	What is the difference between a compiler and interpreter? Is python program compiled or interpreted or both?	8
	а	Write a python Program to interchange the values of variables of a & b without using the third variable. Your program should function as shown below as an example. a=50 b=500 Before Interchange a= 50 b= 500 After Interchange a= 500 b= 500	4
	b	Evaluate the fo!iowing expressions in Python i. print("Hello")+"PES" ii. 10+20**2/(10**2)+12+3**3*10	4
C	0	Give a logically equivalent expression for each of the following. i. num!= 25 or num == 0 ii. 1 <= num and num <= 50 iii. not num > 100 and not num < 0 iv. (num < 0 or num > 100)	4

RN			1				
	1 1	 	- 1	- 1	1 1	1	

Give an appropriate if statement for each of the following. i. An if statement that displays 'PESU' if X is between 0 and 100, inclusive, and displays '15CS101' otherwise. iii. An if statement that displays 'PESU' if X is between 100 and 1000 inclusive and x is an odd number. iv. An if statement that displays 'ICUP' if X is between 300 and 100 inclusive and x is an odd number. iv. An if statement that displays 'ICUP' if X is between 300 and 100 inclusive and x is an even number. a) For Ist = [4, 2, 9, 1], what is the result of each of the following list operations? i. Ist[1] ii. Ist.insert(2, 3) iii. del Ist[3] iv. Ist.append(3) b) Which of the following are valid operations on tuples (for tuples ±1 and ±2)? Explain your options. i. Ien(±1) ii. ±1 + ±2 iii. ±1.append(t2) iv. ±1.insert(±2) For the following information of the type <username, password=""> <"PESU","±-12345">, <"B.Tech","±-100">, <"Icup","Subject">, <"Year","First">> Create a relevant dictionary named Password using the above given information. Write a relevant for the given existing username. Your program should function as shown below as an example. Sample Input -1 User name = Icup password = N Password Incorrect Sample Input -2 User name = Icup password = Subject Password Correct With a typical example explain the following string applicable sequence operations in python. i. Slice d ii. Membership</username,>	_			
d ii. An if statement that displays 'ICUP' if X is between 0 and 100, inclusive, and displays '15CS101' otherwise. iii. An if statement that displays 'PESU' if X is between 100 and 1000 inclusive and x is an odd number. iv. An if statement that displays 'ICUP' if X is between 300 and 100 inclusive and x is an even number.				
"15CS101' otherwise. iii. An if statement that displays 'PESU' if X is between 100 and 1000 inclusive and x is an odd number. iv. An if statement that displays 'ICUP' if X is between 300 and 100 inclusive and x is an even number. a) For Ist = [4, 2, 9, 1], what is the result of each of the following list operations? i. Ist[1] ii. Ist.insert(2, 3) iii. del Ist[3] iv. Istappend(3) b) Which of the following are valid operations on tuples (for tuples t1 and t2)? Explain your options. i. Ien(t1) ii. t1 + t2 iii. t1.append(t2) iv. t1.insert(t2) For the following information of the type <username, password=""> <"PESU","t-12345">, <"B. Tech","t-100">, <"icup","Subject">, <"Year","First"> 2 Create a relevant dictionary named Password using the above given information. Write a relevant for the given existing username. Your program should function as shown below as an example. 2 Sample Input - 1 User name = Icup password = Subject Password Correct With a typical example explain the following string applicable sequence operations in python. i. Slice Mith a typical example explain the following string applicable sequence operations in python. i. Slice A sequence of the following string applicable sequence operations in python. i. Slice In the sequence of the following string applicable sequence operations in python. iii. Slice With a typical example explain the following string applicable sequence operations in python. iii. Slice In the sequence of the following string applicable sequence operations in python. iii. Slice With a typical example explain the following string applicable sequence operations in python. iii. Slice In the sequence of the following string applicable sequence operations in python. In the sequence of the following string applicable sequence operations in python. In the sequence of the following string applicable sequence operations in python. In the sequence of the following string applicable sequence operations of the following string applicable sequence</username,>		d	ii. An if statement that displays 'ICUP' if X is between 0 and 100, inclusive, and displays	8
odd number. iv. An if statement that displays 'ICUP' if X is between 300 and 100 inclusive and x is an even number. a) For lst = [4, 2, 9, 1], what is the result of each of the following list operations? i. lst[1] ii. lst.insert(2, 3) iii. del lst[3] iv. lst.append(3) b) Which of the following are valid operations on tuples (for tuples t1 and t2)? Explain your options. i. len(t1) ii. t1 + t2 iii. t1.append(t2) iv. t1.insert(t2) For the following information of the type <username, password=""> <"PESU","t-12345">, <"B.Tech","t-100">, <"Icup","Subject">, <"Year","First"> Create a relevant dictionary named Password using the above given information. Write a relevant python segment of code accepting user name and password, check if the entered is relevant for the given existing username. Your program should function as shown below as an example. Sample Input - 1 User name = Icup password = N Password Incorrect Sample Input - 2 User name = Icup password = Subject Password Correct With a typical example explain the following string applicable sequence operations in python. i. Slice</username,>			'15CS101' otherwise.	
iv. An if statement that displays 'ICUP' if X is between 300 and 100 inclusive and x is an even number. a) For lst = [4, 2, 9, 1], what is the result of each of the following list operations? i. lst[1] ii. lst.insert(2, 3) iii. del lst[3] iv. lst.append(3) b) Which of the following are valid operations on tuples (for tuples t1 and t2)? Explain your options. i. len(t1) ii. t1 + t2 iii. t1.append(t2) iv. t1.insert(t2) For the following information of the type <username, password=""> <"PESU","t-12345">, <"B.Tech","t-100">, <"Icup","Subject">, <"Year","First">> Create a relevant dictionary named Password using the above given information. Write a relevant python segment of code accepting user name and password, check if the entered is relevant for the given existing username. Your program should function as shown below as an example. Sample Input -1 User name = Icup password = N Password Incorrect Sample Input -2 User name = Icup password = Subject Password Correct With a typical example explain the following string applicable sequence operations in python. i. Slice</username,>	L		iii. An if statement that displays 'PESU' if X is between 100 and 1000 inclusive and x is an	
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