P18IS591 Page No... 1

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P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belagavi)

Fifth Semester, B.E. - Information Science and Engineering Semester End Examination; Feb. - 2021 **Python Programming (Technical Skills - I)**

Time: 2 hr. Max. Marks: 50

Course Outcomes

The Students will be able to:

CO1: Understand and comprehend the basics of python programming.

CO2: Understand and implement modular approach using python.

CO3: Learn and implement various data structures provided by python library including string, list, dictionary and its operations etc.

CO4: Understands the usage of Numpy libraries and to develop various applications of utilizing Numpy.

CO5: Ability to implement computing descriptive statics using pandas

	All questions are compulsory and each question carries TWO marks.			
Q. No.		BLs	COs	POs
1.	Which of the following statements is correct regarding the object oriented programming concept in python a) classes are real-world entities while objects are not real			
	b) objects are real-world entities while classes are not real	L2	CO1	
	c) both objects and classes are real-world entities			
	d) all of the above			
2.	Which of the following operators is the correct option for power[ab]		CO1	
	a) a^b b) a**b c) a^^b d) a^**b	L3		
3.	How many times will the loop run $i = 2$ while $(i > 0)$: $i = i - 1$	L4	CO1	
	a) 2 b) 3 c) 1 d) 0			
4.	Which of the following will result in an error Str1 = "python"	L4	CO1	
	a) print(str1[2]) b) print(str1[0:9]) c) str1[1] = "x" d) both (b) and(c)			
5.	Is python case sensitive when dealing with identifiers a) yes b) no c) machine dependent d) none of the above	L2	CO1	
6.	What will be the output of below python code? Str 1 = "Information" print(Str 1[2:8])	L4	CO2	
	a) format b) formation c) orma d) ormat			
7.	Which of the following is the use of function in python? a) Functions are reusable pieces of program			
	b) Functions dont provide better modularity for your application	L2	CO2	
	c) You can't create your own functions			
	d) None of the above			

8.	Fill in the line of the following Python code for calculating the factorial of a number. def fact(num): if num == 0:		
	return 1 else:	L3	CO2
	return		
	a) num*(num-1) b) (num-1)*(num-2)		
	c) num*fact(num-1) d) fact(num)*fact(num-1)		
9.	Observe the following Python code, and find the output def a(n): if n == 0: return 0 else: return n*a(n - 1)		
	<pre>def b(n, tot): if n == 0: return tot else: return b(n-2, tot-2) a) Both a() and b() aren't tail recursive</pre>	L4	CO2
	c) b() is tail recursive but a() isn't d) a() is tail recursive but b() isn't		
0.	The function $pow(x,y,z)$ is evaluated as:	1.2	002
	a) $(x^{**}y)^{**}z$ b) $(x^{**}y)/z$ c) $(x^{**}y)\% z$ d) $(x^{**}y)^{*}z$	L3	CO2
1.	To Insert 6 to the third position in a given list [say t], we use which command?		
	a) t.insert(3,6) b) t.insert(2,6) c) t.add(3,6) d) t.append(3,6)	L3	CO3
2.	What will be the output of the following python code >>> $t1 = (1,2,3,4)$ >>> $t2 = (1,2,4,3)$ >>> $t1 < t2$ a) TRUE b) FALSE c) ERROR d) NONE	L3	CO3
13.	If $t = (5,3,1,9,0)$ which of the following codes will give the same output?		
	i) Print(t[:-1]) ii) Print(t[0:5]) iii) Print(t[0:4]) iv) Print(t[-4:])	L4	CO3
	a) i, ii b) ii, iv c) i, iv d) i, iii		
14.	What would be the output of the following code d1 = {\"abc":5, "def":6, "ghi":7} print(d1[0])	L4	CO3
	a) abc b) 5 c) {"abc":5} d) Error		
5.	What would be the output of the following code $L = [-2,4]$ $M = map[lamda x: x*2,1]$ $Print(M)$	L4	CO3
	a) [-4,16] b) [-2,4] c) ERROR d) Address of M		

	a) By Shape()	b) By reshape()	L2	CO4
	c) By ord()	d) By change()		
18.	How we install Numpy	, •		
	a) install numpy	b) pip install python numpy	L3	CO4
	c) pip install numpy	d) pip install numpy python		
19.	Numpy.array(list), wha			
	a) It convert array to li		L2	CO4
	c) It convert array to a	•		
20.	Shape() function in Nu	•		
	• "	e array b) Change the shape of the array	L2	CO4
	c) Both of the above	d) None of the above		
21.	ŕ	pandas module in your program?		
	a) import pandas	b) import pandas as p	L2	CO5
	c) from pandas import	, 1 1		
22.	For what purpose a Par			
	a) To create a GUI pro			
	b) To create a database	-	L2	CO5
	c) To create a High lev			
	d) All of the above			
23.	What we pass in DataF	rame in pandas?		
	a) Integer	b) String	L2	CO5
		d) All of the above		
24.		valid writer function in Pandas?		
	a) to_clipboard	b) to_text	L3	CO5
	c) to_stata	d) to_msgpack		
25.	. —	imensional array which is labelled and can hold		
	any data type.			
	a) True		L2	CO5
	b) False			
	,	* * *		