P18I	5591		Pag	e No	. 1
	U.S.N				
Time	P.E.S. College of Engineering, Mandya - 5' (An Autonomous Institution affiliated to VTU, Belagavi) Fifth Semester, B.E Information Science and Engin Semester End Examination; February / March - 2 Python Programming (Technical Skills - I)	eering 022		larks:	50
100	Course Outcomes	111	un. 11	uno.	00
CO1: CO2: CO3: CO4: CO5:	udents will be able to: Understand and comprehend the basics of python programming. Understand and implement modular approach using python Learn and implement various data structures provided by python library including and its operations etc Understands the usage of Numpy libraries and to develop various applications of u Ability to implement computing descriptive statics using pandas. All questions are compulsory and each question carries TWO marks.	_		ionary	
No.	Questions	Marks	BLs	COs	PC
1.	Which of the following statement is correct regarding the object oriented				
	programming concept in python				
	a) classes are real-world entities while objects are not real	2	1.0	001	DC
	b) Objects are real-world entities while classes are not real	2	L2	CO1	PO
	c) both objects and classes are real-world entities				
	d) all of the above				
2.	Suppose a list with name, arr, contains 5 elements you can get the 2^{nd}				
	element from the list using	2	L3	CO1	PC
	a) arr[-2] b) arr[2] c) arr [-1] d) arr [1]				
3.	Python converts the source code into a intermediate form called	2	1.0	CO1	
	a) Ocla code b) byte code c) Deca code d) nano code	2	L2	CO1	PU
4.	Which of the following statements are correct				
	i) Python is a high level programming language				
	ii) Python is an interpreted language	2	L2	CO1	PC
	iii) Python is a compiled language	2		COI	ĨĊ
	iv) Python program is compiled before it is interpreted				
	a) i, ii b) i, iv c) ii, iii d) ii, iv				
5.	What is the output of the following program? Print $((1,2)+(3,4))$	2	L3	CO1	PC
	a) (1,2), (3,4) b) (4,6) c) (1, 2, 3, 4) d) Invalid syntax	-	20	001	10
6.	What will be output of the following python code? Y=6				
	Z=lambda x:x*y	2	L4	CO2	PC
	Print z(8)				
	a) 48 b) 14 c) 64 d) None of the above				
	Contd 2	2			

P18I	\$591		Pag	e No 2
7.	Which of the following is the use of function in Python			
	a) Functions are reusable Pieces of program			
	b) Functions are not reusable piece of program	2	L2	CO3 PO1
	c) Functions don't provide better modularity for your application			
	d) None of the above.			
8.	is a string literal denoted by triple quotes for			
	providing the specification of certain program elements.			
	a) Interface b) Client	2	L2	CO2 PO1
	c) Docstring d) Modularity			
9.	Fill in the line of the following python code for calculating the factorial of			
7.	a number			
	def fact (num)			
	if num ==0			
	Return 1 Else	2	L4	CO2 PO2
	Retum			
	a) Num*fact (num-1) b) (num-1)*(num-2)			
	c) num* (num-1) d) fact(num) *fact(num-1)			
10.	Which of the following is false?			
	a) string is immutable			
	b) capitalize () function in string is used to return a string by converting			
	the whole given string into upper case.	2	L2	CO3 PO1
	c) lower () function is string is used to return a string by converting the			
	whole given string into lower case			
	d) None of these			
11.	Suppose a list1 [2,3,4,5,6] what is list1[:-1]?			
	a) [2,3,4,5] b) [2,3,4,5,6] c) [6,2,3,4,5] d) Error	2	L3	CO3 PO2
12.	To insert 6 to the third position in a list (say t), we use which command			
	a) t. insert (3,6) b)t.insert (2,6)	2	L3	CO3 PO2
	c) t.add (3,6) d) t.append (3,6)			
13.	What will be the output of following python code			
	list1= [3, 2, 5, 3, 6]			
	list 1.pop(3)	2	L4	CO3 PO2
	Print (list1)			
	a) [3,2,5,7,3,6] b) [2,5,7,3,6] c) [2,5,7,6] d) [3,2,5,7,3,6]			
14.	Suppose t=(1,2,4,3) which of the following is incorrect?			
	a) print (t[3]) b) t[3]=45	2	L3	CO3 PO2
	c) print (max(t))) d) print (len(t))			
	Contd 3			

P18IS591				Page No 3		
15.	Which of the following statement creates a dictionary					
	a) d= { }					
	b) d= { "Python" =1 "Jav	a".2}	2	L3	CO3 P	02
	c) d = {1: "Python", 2: "Ja	va"}				
	d) All of the above					
16.	The functions return its argument with a modified shape ,					
	whereas the method modifies the array itself.				CO4 P	01
	a) Reshape, Resize	b) Resize, Reshape	2	L2	04 1	01
	c) Lambda, Reshape	d) both a and b				
17.	Which of the following fu					
	array				CO4 P	01
	a) row-stack	b) column stack	2	L3	004 1	01
	c) Con stack	d)All of the above				
18.	ndarray is also known as					
	a) alias array	b) array.array	2	L3	CO4 P	01
	c) numpy. Array	d) all of the mentioned.				
19.	Which of the following will generate random number in the range 1-100(
	both inclusive)					
	a) rand () %100		2	L3	CO4 P	02
	b) rand () %101		2	15	001 1	02
	c) (rand () %(101)) d) (rand () % (100))+1					
20.	What is the use of the zeros () function in Numpy array in Python?'					
	a) To make a matrix with all element 0					
	b) To make a matrix with	all diagonal element 0	2	L2	CO4 P	01
	c) To make a matrix with first row 0					
	d) None of the above					
21.	Which of the following is c	correct features of data frame?				
	a) Potentially columns are of different types				P	01
	b) can perform arithmetic operation or rows & columns			L2	CO5	2,3
	c) labeled axes (rows & co	lumns)			-	.,.
	d) All of the above.					
22.	All pandas data structure a	aremutable, but not always				
	mutable		2	L2	CO5 P	01
	a) size, value	b) semantic, size	-		-	
	c) Value, size	d) value, semantic				

P18IS591			Page No 4				
23.	What will be the output for the following code?						
	import pandas	as pd					
	S=pd. Series ([1,2,3,4], index=	='a','b','c','d'])	2	L1	CO5 PO2
	Print (s['a'])						
	a) 1	b) 2	c) 3	d) 4			
24.	What is the out	tput of the follo	wing code:				
	l=[-2,4]						
	m= map(lambd	$a = x^{*}2, l$					
	Print (m)				2	1.2	CO5 DO2
	a) [-4,16]				2	L3	CO5 PO2
	b) address of r	n					
	c) error						
	d) -4,16						
25.	In Pandas, inde	ex values must	be				
	a) Unique						
	b) Hashable				2	L2	CO5 PO1
	c) Both a & b						
	d) None of the	above					

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