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Dayananda Sagar College of Engineering

Department of Electronics & Communication Engineering
Continuous Internal Evaluation – I

Course Name : Programming in Python	Date :	07/10/2020
Course Code : **18EC5DEBPP**	Day :	Wednesday
Semester : 5	Timings :	1.00-2.30 PM
Max Marks : 50 M	Duration :	1½ Hrs.

No.		Question Description				Mks	CO & Levels
Q1	(a)	What is a python file with .py extension called?				1	CO1
		i) package	ii) module	iii) directory	iv) None of these		
	(b)	What is used to define a block of code in Python?				1	
		i) Parenthesis	ii) Curly braces	iii) Indentation	iv) None of these		
	(c)	What will be the output of the following Python code? for i in range(0,2,-1): print("DSCE")				1	
		i) DSCE	ii) DSCE DSCE	iii) No output	iv) Error		
	(d)	Does python have switch case statement?				1	
		i) True	ii) False	iii) Python has switch statement but we cannot use it.	iv) None of the above		
	(e)	The output of the expression: x and y i.e., 5 and 10 is 10. This is because?				1	
		i) As x=5 i.e., true	ii) 10 is greater than 5	iii) 10 is on the right side of the 'and' operator	iv) None of these		

	(f)	What will be the output of given Python code?
		
		``python
		n=7
		c=0
		while(n):
		    if(n>5):
		        c=c+n-1
		        n=n-1
		    else:
		        break
		print(n)
		print(c)
		``
						1	

		i) 5 and 11	ii) 2	iii) 6 and 5	iv) 5 and 2		
	(g)	What will be output of the following expression: `'p' + 'q' if '12'.isdigit() else 'r' + 's'`				1	
		i) rs	ii) pq	iii) pqrs	iv) pq12		
	(h)	_____ is not a reserved keyword in Python?				1	
		i) insert	ii) except	iii) import	iv) yield		

	(i)	The output of the following code is?
		``python
		x = "abcd"
		for i in range(len(x)):
		    print(i)
		``
						1	

		i) a b c d	ii) 0 1 2 3	iii) 1 2 3 4	iv) 4		
	(j)	The output of the following code is?				1	

```python
def f():
    try:
        print(2)
    finally:
        print(1)
j=f()
```

i) 1	ii) 2	iii) 2 2	iv) 2 1		

Q2	(a)	Using if/elif/else statements, write a python program to transform a numeric date in month/day format to an expanded English form. For example, 3/18 should be converted to March 18.	7	CO1& L3
	(b)	What are the key features of Python?	3	CO1& L3
Q3	(a)	Using the functions, write a python program to check whether a given 5-digit number is Armstrong Number or not	5	CO1& L2
	(b)	Write a python program to print the pattern (using *) of your USN's last 3 digits with the grid size of 7x5.	5	CO1& L4
Q4		Illustrate with an example how Arithmetic Operators, Assignment Operators, Comparison Operators, Logical Operators and Bitwise Operators are used in python to solve different problems.	10	CO1& L3
		OR		
Q5	(a)	Write a python program to check if a given Year is a Leap Year or not with the help of nested if statements.	5	CO1& L3
	(b)	Write a python program to find the GCD of two Positive numbers using the if and while loop.	5	CO1& L3
Q6	(a)	A simple method of sending secret messages is the substitution cipher method. In this method, each letter of the given string gets replaced by another letter of the alphabets based on the key value, say every 'a' gets replaced with 'd' (i.e., key = +3 value of 'a'), and every 'b' gets replaced by 'e', etc. Write a python program to implement this.	6	CO1& L4
	(b)	Illustrate the concept of String slicing and joining with the help of suitable examples.	4	CO1& L3
		OR		
Q7	(a)	Write a python program to display the Fibonacci sequence between the upper limit and lower limit entered by the user and also print the count of odd and even Fibonacci numbers in the same interval.	5	CO1&L3
	(b)	Write a python program to count the occurrence of the user entered words in a given sentence.	5	CO1& L3