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Internal Assessment Test 1 – March 2019

Sub:	Python Application Programming	Sub Code:	15CS664	Branch:	CSE		
Date:	07/03/2019	Duration:	90 min's	Max Marks:	50		
		Sem / Sec:	6 th A/B / C				
<u>Answer any FIVE FULL Questions</u>							
					MAR KS [04]	CO	RBT
1 (a) Explain the following: i) Skills necessary for a programmer ii) Interactive mode iii) Short Circuit evaluation of expression iv) Modulus Operator						CO1	L2
(b) Describe Python language support for arithmetic operators. Write a Python program to calculate and print the student total marks based on 2 exam, one sport event and 1 activity conducted in a college with a weightage of an activity=20% , each exam=30% and sports=20% for 100 marks.					[06]	CO1	L3
2 (a) List and give syntax of all Python supported conditional statements along with its usage with an example program to check whether a given number is positive or negative or zero.					[06]	CO1	L2
(b) Explain the rules of precedence used by Python to evaluate an expression.					[04]	CO1	L2
3 (a) How Python handles the exceptions? Explain with an example program.					[06]	CO1	L2
(b) Predict the output and justify your answer: i) -11%9 ii) 7.7//7 iii) (200-70)*10/5 iv) not "False"					[04]	CO1	L3

P.T.O.

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P.T.O.

4 (a) List and explain any four built in string manipulation functions supported in Python with examples.	[05]	CO2	L2
(b) Write a user defined function “roll_dice()” which returns random numbers between 1 to 6.	[05]	CO1	L2
5 (a) A positive integer ‘m’ is a sum of squares if it can be written as k+x, where k>0 and x>0 and both k and x are perfect squares. Write a Python function “Sum_of_squares(m)” that takes an integer ‘m’ and returns true if ‘m’ is a sum of squares and False otherwise. [Hint:Sum_of_squares(41) should return True, Sum_of_squares(30) should return False, Sum_of_squares(17) should return true]	[10]	CO1	L3
6 (a) List the rules to declare a variable in Python. Demonstrate at least three different types of variable uses with an example program.	[05]	CO1	L1
(b) Write a Python code to print the following pattern using loops: # x x x # x x x #	[05]	CO2	L2
7 Write a Python program which repeatedly reads numbers until the user enters “done”. Once done is entered print out the total, count and average of the numbers. If the user enters anything other than the numbers, detect their mistake using try and except and print an error message and skip to the next number.	[10]	CO2	L2

-ALL THE BEST-

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