Reg No.:____

Name:

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

FIRST SEMESTER B.TECH DEGREE EXAMINATION(S), DECEMBER 2019
Course Code: BE101-05

Co	ourse Name: INTRODUCTION TO COMPUTING AND PROBLEM SOLVING	47/
	Tarks: 100 Duration: 3	
	PART A	
	Answer all questions, each carries2 or 3 marks.	Marks
1	What is cache memory?	(3)
2	What is a bus? What are the functions of system and expansion buses?	(3)
3	What is an algorithm? Give the basic properties of an algorithm.	(3)
2 3 4	Draw a flowchart to find the factorial of a number.	(3)
5	Write the output for the following program segment:	
	for i in range(2,8,1):	
	if i==5:	
	continue	(2)
	print (i, end)	
	print "Done"	
6	What will be the output if continue statement is replaced with a break statement? Give the output for the following expression evaluation in Python:	
	(i) -4**2 (ii) 2**3**2 (iii) 45%0	(3)
7	Write a Python code using function to find the quadrant of a given point (x, y)	(3)
8	Write a Python function to find the sum of all even numbers in a set of n	(3)
0	numbers, entered by the user.	(3)
9	What will be the output of the given code?	
	>>>values = "Apple, orange, grapes"	
	Apple, orange, grapes	(2)
	>>>list = values.split(",")	(2)
	>>>print("list:", list)	
10	Write a Python program to reverse the first half and second half of an even	
	lengthed string separately. (Eg: if the string is "gooddays output should be	(3)
	"doogsyad")	
11	Write a Python program to remove the characters at odd index positions in a	(3)
	string.	
12	What is pickling? How is it implemented in Python?	(3)
13	Let r1 and r2 be the objects of the class rank. Give the output of the following	
	code:	(2)
		(3)
	>>> r1=rank()	