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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

FIRST SEMESTER B.TECH DEGREE EXAMINATION(S), MAY 2019

Course Code: BE101-05

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•	Course Name: INTRODUCTION TO COMPUTING AND PROBLEM SOLVING	3//
Ma	x. Marks: 100 Duration: 3	Hours
	PART A Answer all questions, each carries 2 or 3 marks.	Marks
1	Differentiate system software and application software.	(3)
2	Give the roles of PC, IR and MAR.	(3)
3	What are the properties of a good algorithm?	(3)
4	Draw a flowchart to find area of a triangle.	(3)
5	Write the syntax of chained conditional statement. Explain with an example.	(3)
6	Give the output for the following program segment:	
	for c in "PYTHON":	
	print (c)	
	else:	(3)
	print ("Done")	
	What will be the output if print (c) is followed by a break statement in the for	
	loop?	
7	Write a Python program using function to convert an integer to a string.	(3)
8	How will you use sqrt() and log() functions in your program. Explain with an	(3)
	example.	
9	Write a program to check if the word 'orange' is present in the string "This is	(2)
	orange juice".	(2)
10	Python statements to print keys and values of the dictionary separately. Dict=['name':'john','age':25,'salary': 28000]	(3)
11	Consider the list scores = [5, 4, 7, 3, 6, 2, 1] and write the Python code to perform the following operations: i) Insert an element 9 at the beginning of the list. ii) Insert an element 8 at the index position 3 of the list. iii) Delete an element at the index position 4.	(3)
12		*
	A=20 B=0 C=A/B	(2)
13	print C Explain any three inbuilt exceptions.	(3)

- (ii) Replace all the spaces in the input string with * or if no spaces found,put \$ at the start and end of the string.
- b) Explain any four file functions in Python with example. (4)
 Explain how runtime errors are handled in python. (3)
- 21 a) Explain any three dictionary operations in Python. Give examples.

 Write a Python program to create a dictionary of roll numbers and names of five students. Display the names in the dictionary in alphabetical order.
 - b) Write a Python program to read a number and check for prime. If not, raise an arithmetic error to display as not prime. (7)
- 22 a) Write a Python program to read a list consisting of integers, floating point numbers and strings. Separate them into different lists depending on the data (7)

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type.

b) Write a Python program to read a text file and display all the palindromes in the (7) file.
