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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Scheme for Valuation/Answer Key

Scheme of evaluation (marks in brackets) and answers of problems/key

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY FIRST SEMESTER B.TECH DEGREE EXAMINATION(S), MAY 2019

Course Code: BE101-05

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	e Name: INTRODUCTION TO COMPUTING AND PROBLE				
Max. Marks:		Duration: 3 Hours			
Marks may be awarded for outputs based on any version of Python PART A					
	Answer all questions, each carries2 or 3 marks.	Marks			
1	system software and application software. $(1.5 + 1.5 \text{ marks})$	(3)			
2	Roles of each one. (1 mark each)	(3)			
3	properties (any 3 -1 mark each)	(3)			
4	Flowchart (3marks)	(3)			
5	syntax. (2 marks)	(3)			
	example. (1 mark)				
6	Give the output for the following program segment:	(3)			
	P				
	Y				
	T				
	H 2014				
	0				
	N				
	Done (2 marks)				
	output if print (c) is followed by a break statement				
	P (1 mark)				
7	program (1mark)	(3)			
	using function (1marks)				
	type casting(1mark)				
8	import math (1marks)	(3)			
	math.sqrt() (1marks)				



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	math.log() (1marks)	
9	Write a program (2marks)	(2)
10	identify the key-value pairs. (1) to print keys and values of the dictionary (2)	(3)
11	1 mark each	(3)
12	Division by zero exception (1) Justification (1)	(2)
13	inbuilt exceptions. (1 mark each)	(3)
14	Differentiate. (1.5 compound Boolean expressioneach mark)	(3)
	PART B	
	Answer any fourfull questions, each carries8 marks.	45.
15	Bus explanation (1mark)	(8)
	types. (4marks)	
	Diagram. (3marks)	
16	algorithm (4 marks)	(8)
	flowchart (4 marks)	
17	Program using compound Boolean expression. (8marks)	(8)
	NB: if compound Boolean expression not used give pa	rtial
	marks accordingly	
18	recursion (2marks)	(8)
	python program to calculate nC _r . (3marks)	
	Use fact (3marks)	
19	Correct program (8 marks)	
	NB: partial marks may be awarded for partial output	(8)
	PART C	
20	Answer any two full questions, each carries14 marks. a) menu driven (2 marks)	
	(i) (2 marks)	
	(ii) Replace all the spaces (1.5 marks)	
	put \$ at the start and end of the string. (1.5 marks)	(7)



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	b)	(i) functions with example (1 $mark$ each)	(4)
		(ii) exception handling (3 marks).	(3)
21	a)	operations in python. Give examples. (1 mark each)	
		creation .(2marks)	(7)
		sort + Display (1 mark + 1 mark)	
	b)	to read a number (1mark)	(7)
		check for prime. (3marks)	
		raise an arithmetic error (3marks)	
22	a)	Reading proper list(3marks)	
		Separating (4marks)	(7)
	b)	to read a text file (2marks)	(7)
		identifying palindromes (3marks)	
		display (2marks)	

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