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	U.S.N	
	P.E.S. College of Engineering, Mandya - 571 401	
	(An Autonomous Institution affiliated to VTU, Belagavi)	
	Seventh Semester, B.E Information Science and Engineering	
	Semester End Examination; Jan. / Feb 2021 Python for Everyone	
	Time: 3 hrs Max. Marks: 100	
	<i>Note</i> : Answer <i>FIVE</i> full questions, selecting <i>ONE</i> full question from each unit. UNIT - I	
1 a.	What is the difference between a compiler and an interpreter?	6
b.	Illustrate the identifiers, keywords, statements, expressions and variables in python programming	6
	language with examples.	
c.	List the basic data types available in python with example.	8
2 a.	Describe the features and applications of python.	8
b.	Illustrate comparison between Logical and Bitwise operators with examples.	6
c.	Describe the different characteristics of an algorithm.	6
	UNIT - II	
3 a.	Describe chained conditional used in python.	6
b.	Illustrate string slices with example.	10
c.	How "in' operator used in python?	4
4 a.	Show how the length of a string is obtained using 'len' built in function.	10
b.	Write python code to count the number of times the letter ' $a$ ' appears in a given string.	10
5.0	UNIT - III Illustrate list methods with examples.	8
5 a. b.	Explain the concept of Aliasing in python.	8 4
	Explain the concept of Affasting in python. Explain dictionary in python. Write its operations with suitable examples.	4
с. 6 а.	Explain dictionary in python. while its operations with suitable examples. Illustrate traversing list with suitable example.	o 10
o a. b.	How tuples are used as keys in dictionaries?	4
	Explain dictionaries and tuples in detail.	4
c.	UNIT - IV	0
7 a.	Define the following:	10
	i) Class ii) Constructor iii) Destructor iv) Inheritance v) Method	
b.	Explain the concept of Encapsulation.	10
8 a.	How to create classes in python? Explain with examples.	10
b.	Define Error and Exception. Distinguish between these two features.	10
	UNIT - V	
9 a.	Explain the states in life cycle of a thread.	10
b.	Explain model, view and controller pattern.	10
10 a.	Explain two way chat script in client server programming.	10
b.	Explain parallel systems in detail.	10