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BPLCK205B/BPLCKB205

Second Semester B.E./B.Tech. Degree Supplementary Examination, June/July 2024
Introduction to Python Programming

Time: 3 hrs.   Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks , L: Bloom's level , C: Course outcomes.

		Module – 1	M	L	C
Q.1	a.	Explain elif, for, while statement in python with example for each.	06	L2	CO1
	b.	List and explain math operators used in python with example.	06	L2	CO1
	c.	Develop a program to read the name and year of birth of a person. Print whether person is senior citizen or not.	08	L3	CO1
		OR			
Q.2	a.	Explain local and global scope with example.	06	L2	CO1
	b.	With an example, explain the following built in function : (i) print( ) (ii) input( ) (iii) len( )	06	L2	CO1
	c.	Develop a program to generate Fibonacci number of length (N). Read N from the console.	08	L3	CO1
		Module – 2			
Q.3	a.	Explain the following list methods with example : (i) append( ) (ii) insert( ) (iii) sort( )	08	L2	CO2
	b.	Differentiate List and dictionaries.	04	L1	CO2
	c.	Develop a program using dictionary to print Ten most frequently appearing word in a text file.	08	L3	CO2
		OR			
Q.4	a.	Explain the following method with example: (i) key( ) (ii) values( ) (iii) items( ) in dictionary	08	L2	CO2
	b.	Show that List are Mutable.	04	L1	CO2
	c.	Develop a program to compute Mean, Variance, Standard deviation with message.	08	L3	CO2
		Module – 3			
Q.5	a.	Explain the following string method with example: (i) isalpha( ) (ii) isalnum( ) (iii) isdecimal( ) (iv) isspace( )	08	L1	CO3

	b.	Differentiate between absolute and relative path in specify file path.	04	L2	CO3
	c.	Write a program to accept string and display total number of alphabet.	08	L3	CO3
OR					
Q.6	a.	Explain the following method with example: (i) upper( ) (ii) lower( ) (iii) is_upper( ) (iv) is_lower( )	08	L2	CO3
	b.	Explain how to save variable with Shelve module.	04	L2	CO3
	c.	Develop a program to sort the content of a text file and write the sorted content into separate file.	08	L2	CO3
Module – 4					
Q.7	a.	How do you copy files and folders using Shutil module? Explain in detail.	10	L2	CO3
	b.	With suitable code, explain Backup a folder into a Zip files, clearly mention steps in detail.	10	L3	CO3
OR					
Q.8	a.	What are assertions? Write the content of an assert statement. Explain then with example.	10	L2	CO3
	b.	Explain logging module with example how files and folder can be permanently deleted.	10	L2	CO3
Module – 5					
Q.9	a.	What is a class? How to define class in python? How to initiate a class and how the class members are accessed?	10	L2	CO4
	b.	What is polymorphism? Demonstrate polymorphism with function to find histogram to count the number of times each letter appears in a word and in sentences.	10	L3	CO4
OR					
Q.10	a.	Discuss operator overloading. Mention any five operators with respective special function to be overloaded in python.	10	L2	CO4
	b.	Define pure function. Illustrate with an example.	10	L3	CO4

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