CBCS SCHEME

USN ☐☐☐☐☐☐☐☐☐☐   BPLCK105B/ BPLCKB105

First Semester B.E./B.Tech Degree 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.	Define comparison operator and list its type. Give the difference between = = and = operator.	4	L1	CO1
	b.	Explain flow control statement in detail with if, else, whileloop and forloop.	10	L2	CO1
	c.	Build a function to calculate factorial of a number. Develop a program to compute binomial coefficient.	6	L3	CO1
		OR			
Q.2	a.	Define exception in python programming and give the basic form of an exception handling block with an example.	8	L1	CO1
	b.	Explain how to define function and to make a function call by passing an argument with an example.	4	L2	CO1
	c.	Develop a python program to read the name and year of birth of a person and to display whether the person is a senior citizen or not.	8	L3	CO1
		Module – 2			
Q.3	a.	Explain in detail about append( ) and index( ) function with respect to list in python.	6	L2	CO2
	b.	Develop suitable python program with nested list to explain copy( ) and deepcopy( ) methods.	6	L3	CO2
	c.	Tuples are immutable. Explain with an example.	8	L2	CO2
		OR			
Q.4	a.	Explain the below methods in list with suitable code : i) remove( ) ii) sor( ) iii) reverse( ).	6	L2	CO2
	b.	Outline python dictionaries with some of their methods.	8	L2	CO2
	c.	Explain Nested dictionaries with an example.	6	L2	CO2

		Module – 3			
Q.5	a.	Develop a code to print to most frequently appearing words in a text file.	10	L3	CO3
	b.	Explain below python string handling function with example : i) split( ) ii) rjust( ) iii) partition( ) iv) join( ) v) startwith( ).	10	L2	CO3
		OR			
Q.6	a.	Explain the method to restore the data to variable from the hard drive.	10	L2	CO3
	b.	Develop a program to sort the contents of a tent file and write the sorted content into a separate text file.	10	L3	CO3
		Module – 4			
Q.7	a.	Explain various shell utilities function.	10	L2	CO3
	b.	Develop a program to read and to extract all the files and folder into a ZIP file by using relevant methods.	10	L3	CO3
		OR			
Q.8	a.	Explain permanent delete and safe delete with a suitable python programming.	10	L2	CO3
	b.	Define Assertion. Explain the use of Assertion in a Traffic light simulation with a python program.	10	L2	CO3
		Module – 5			
Q.9	a.	Define pure function and modifier. Explain the role of pure function and modifier in application development.	10	L2	CO3
	b.	Explain the methods _int_ and _str_ with example.	10	L2	CO3
		OR			
Q.10	a.	Define operator overloading. Explain with suitable python program.	10	L2	CO4
	b.	Define polymorphism and give a suitable python program.	10	L1	CO4

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