CBCS SCHEME

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BMT306C

Third Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025
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 with neat diagram about computer hardware architecture.	10	L2	CO1
	b.	Explain with relevant details about building blocks of python.	10	L2	CO1
		OR			
Q.2	a.	Explain three types of errors encountered in python program.	10	L2	CO1
	b.	Explain with relevant details about rules of precedence used by python to evaluate an arithmetic expression.	10	L2	CO1
		Module – 2			
Q.3	a.	With relevant details, explain about chained conditionals and nested conditionals.	10	L2	CO2
	b.	With necessary details, explain about short circuit evaluation of logical expressions.	10	L2	CO2
		OR			
Q.4	a.	With necessary examples, explain about conditional execution and alternative execution.	10	L2	CO2
	b.	With relevant details, explain about Boolean expressions and logical operators in python.	10	L2	CO2
		Module – 3			
Q.5	a.	Explain about string as a sequence of characters with relevant details and also write about len function in string.	10	L2	CO3
	b.	Explain string slices in detail and also explain strings are immutable.	10	L2	CO3
		OR			
Q.6	a.	Explain the following : Infinite loop, break statement and continue statement in python with example.	10	L2	CO3
	b.	Explain while loop and for loop statements in python with relevant examples.	10	L2	CO3
		Module – 4			
Q.7	a.	Explain with relevant details about opening and reading files in python.	10	L2	CO4
	b.	Explain with necessary details about searching through a file and writing in file operation in python.	10	L2	CO4
		OR			
Q.8	a.	Explain with necessary details character matching in regular expression in python.	10	L2	CO4
	b.	Explain with relevant details write about extracting data using regular expressions in python.	10	L2	CO4

Module – 5					
Q.9	**a.**	Explain list slices and deleting elements from list with example.	**10**	**L2**	**CO5**
	b.	Explain Aliasing and explain the concept of lists are mutable with relevant example.	**10**	**L2**	**CO5**
OR					
Q.10	**a.**	Explain with relevant example tuples are immutable.	**10**	**L2**	**CO5**
	b.	Explain with relevant example list operations, list methods and built in functions that can be used on lists.	**10**	**L2**	**CO5**

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