

CBCS SCHEME

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BPLCK205B / BPLCKB205

Second 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.	Explain with example print(), input() and len().	6	L2	CO1
	b.	Explain elif, for, while statement in python with example.	6	L2	CO1
	c.	Develop a program to generate Fibonacci sequence of Length(N).Read N from the console.	8	L3	CO1
OR					
Q.2	a.	What are functions? Explain python function with parameters and return statement.	6	L2	CO1
	b.	How to handle exception in python with example.	6	L2	CO1
	c.	Explain Local and Global scope with variables for each.	8	L2	CO1
Module – 2					
Q.3	a.	Explain the use of in and not in operator in list with examples.	6	L2	CO2
	b.	Explain negative Indexing, slicing, index(), append(), remove(), pop(), insert() and sort() with suitable example.	8	L2	CO2
	c.	Write about Mutable and Immutable data type in list.	6	L2	CO2
OR					
Q.4	a.	Explain the following list methods with examples. i) index () ii) append() iii) insert() iv) sort() v) reverse() vi) List concatenation and Replication.	10	L2	CO2
	b.	Develop a program to read the student details like Name, USN and Marks in three subjects. Display the student details, total marks and percentage with suitable messages.	10	L3	CO2
Module – 3					
Q.5	a.	Illustrate with example opening of a file with open() function, reading the contents of the file with read() and writing to files with write ().	10	L2	CO3
	b.	Explain how to save variable with the shelve module.	10	L2	CO3

OR			
Q.6	a.	Explain the following string methods with examples. i) isalpha() ii) isalnum() iii) isdecimal() iv) isspace() v) istitle().	10 L2 CO3
	b.	Explain about in and not in operators in string.	5 L2 CO3
	c.	Explain about pyperclip module.	5 L2 CO3
Module – 4			
Q.7	a.	What are Assertions? Write the contents of an assert statement. Explain them with examples.	10 L2 CO3
	b.	Develop a program with a function named DivExp which takes Two parameters a, b and returns a value c(c = a/b), write suitable assertion for a > 0 in function DivExp and raise an exception for when b = 0. Develop a suitable program which reads two values from the console and calls a function DivExp.	10 L3 CO3
OR			
Q.8	a.	Explain about files and folders can be copied using shutil module.	10 L2 CO3
	b.	Explain about Debug control window.	10 L2 CO3
Module – 5			
Q.9	a.	Explain about class and objects.	10 L2 CO4
	b.	Explain about pure function and modifier.	10 L2 CO4
OR			
Q.10	a.	Explain the concept of prototyping Vs planning.	10 L2 CO4
	b.	Explain _init_ and _str_ methods with examples.	10 L2 CO4
