

CBCS SCHEME

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BPLCK205B/BPLCKB205

Second Semester B.E./B.Tech. Degree Examination, June/July 2023 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.	Demonstrate with example print (), input () and string replication.	6	L3	CO1
	b.	Develop a program to generate Fibonacci square of length (N). Read N from the console.	6	L3	CO1
	c.	Explain elif, for, while, break and continue statements in python with examples for each.	8	L2	CO1
OR					
Q.2	a.	What are user defined functions? How can we pass parameters in user defined functions? Explain with suitable example.	5	L1	CO1
	b.	Explain Local and Global scope with variables for each.	8	L2	CO1
	c.	Develop a program to read the name and year of birth of a person. Print whether the person is a senior citizen or not.	7	L3	CO1
Module – 2					
Q.3	a.	What is a List? Explain append (), insert () and remove () methods with examples.	8	L2	CO2
	b.	Explain the following methods with example : i) keys () ii) values () iii) items () in a dictionary.	12	L2	CO2
OR					
Q.4	a.	How is tuple different from a list and which function is used to convert list to tuple? Explain.	6	L2	CO2
	b.	List the merits of dictionary over list.	4	L1	CO2
	c.	Read N numbers from the console and create a list. Develop a program to compute and print mean, variance and standard deviation with messages.	10	L3	CO2
Module – 3					
Q.5	a.	Explain the following methods with suitable examples : i) upper () ii) lower () iii) is_upper () iv) is_lower ()	8	L2	CO3
	b.	Illustrate with example opening of a file with open () function, reading the contents of the file with read () and writing to files with write ().	12	L2	CO3

OR

Q.6	a.	Explain the steps involved in adding bullets to Wiki – Markup. Support with appropriate code.	10	L2	CO3
	b.	Develop a program to sort the contents of a text file and write the sorted contents into a separate text file. [Use strip () , len () , list methods sort () , append and file methods open () , readlines () and write ()].	10	L3	CO3

Module – 4

Q.7	a.	How do you copy files and folders using Shutil module? Explain in detail.	6	L2	CO3
	b.	What are Assertions? Write the contents of an assert statement. Explain them with examples.	8	L2	CO3
	c.	Illustrate the logging levels in python.	6	L2	CO3

OR

Q.8	a.	With suitable code, explain Backing up a Folder into a Zip file. Clearly mention the steps involved.	12	L2	CO3
	b.	Explain the logging module and debug the factorial of number program.	8	L3	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?	8	L2	CO4
	b.	Define Pure function. Illustrate with an example Python program.	8	L3	CO4
	c.	Explain Printing objects.	4	L1	CO4

OR

Q.10	a.	What is Polymorphism? Demonstrate polymorphism with functions to find histogram to count the numbers of times each letters appears in a word and in sentence.	10	L3	CO4
	b.	Write Deck methods to add, remove shuffle and sort cards, with illustrating the problem.	10	L2	CO4
