

# CBCS SCHEME

BPLCKB105/BPLCK105B



USN

## First 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.	List and explain math operators used in Python with example.	7	L2	CO1
	b.	Write a Python program to check whether the number is even or odd.	6	L3	CO1
	c.	With an example explain user defined functions.	7	L2	CO1
<b>OR</b>					
Q.2	a.	With an example explain the following built-in functions : i) print() ii) input() iii) len().	6	L1	CO1
	b.	How to handle exceptions in Python explain with an example.	8	L1	CO1
	c.	Write a program to print even numbers using step size in range( ).	6	L3	CO1
<b>Module – 2</b>					
Q.3	a.	Explain the following list methods with examples. •index(), •append(), •insert(), •sort(), •reverse( ).	10	L2	CO2
	b.	Write a python program to create a dictionary of 10 key-value pairs and print only keys on the screen.	5	L3	CO2
	c.	Explain in and not in operators used in lists with an example.	5	L1	CO2
<b>OR</b>					
Q.4	a.	Show that lists are mutable.	6	L1	CO2
	b.	Write a program to count the frequency of characters using module PPrint(Pretty Printing).	8	L2	CO2
	c.	Explain random.choice and random.shuffle functions with lists.	6	L1	CO2

## Module – 3

Q.5	a.	Write the output of following Python code >>>Spam = 'Hello, World!' i) >>>Spam[0]    ii) >>Spam[4]    iii) >>>Spam[-1] iv) Spam[0 : 5]    v) >>> Spam [:5]    vi) >>>Spam[7 :].	6	L1	CO3
	b.	Write a program to accept string and display total number of alphabets.	6	L3	CO3
	c.	Explain how to save variables with the Shelve module.	8	L1	CO3

## OR

Q.6	a.	Explain the following string methods with examples : i) isalpha( )    ii) isalnum( )    iii) isdecimal( )    iv) isspace( )    v) istitle( ).	10	L1	CO3
	b.	Write a Python program that repeatedly asks users for their age and a Password until they provide valid input. [age is in digit and Password in alphabet an digit only].	6	L3	CO3
	c.	Differentiate between Absolute and relative paths in specifying file paths.	4	L2	CO3

## Module – 4

Q.7	a.	Show that files and folders can be copied using Shutil module.	8	L1	CO4
	b.	Write a note on Raising exceptions in Python.	7	L1	CO4
	c.	Explain five buttons available in the Debug Control Window.	5	L2	CO4

## OR

Q.8	a.	Describe logging levels used in Python to categorize log messages by importance.	10	L2	CO4
	b.	With example show how files and folders can be permanently deleted.	10	L1	CO4

## Module – 5

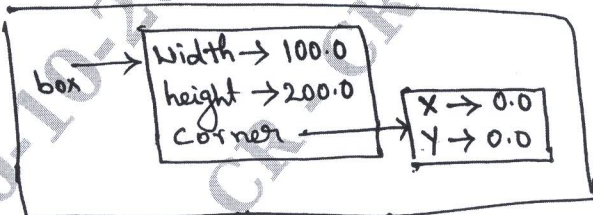
Q.9	a.	Write a program to implement the following object diagram and its functionality as shown in Fig.9(a). Initialize the attributes through a constructor and print the same.  	10	L3	CO4
	b.	Discuss operator overloading. Mention any five operators with respective special functions to be overloaded in Python.	10	L2	CO4

Fig.Q9(a)

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## OR

Q.10	a.	Explain the following with an example : i) isinstance( )    ii) hasattr( )    iii) copy.copy    iv) copy.deepcopy( ).	8	L2	CO4
	b.	Write a program to explain pure function and modifier function.	12	L3	CO4

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