SHAMBHUNATH INSTITUTE OF ENGINEERING AND TECHNOLOGY

Subject Code: BCC302

Course: B. Tech.

Subject: Python Programming

SEMESTER: III

FIRST SESSIONAL EXAMINATION, EVEN-SEMESTER, (2023-2024)

Branch: Computer Science & Engineering

Time –1hr 30minutes

Maximum Marks -30

1. Attempt any five questions.

QN	OVIDORIVAN			/ V
	QUESTION	Marks	CO	BL
an	Define the programming cycle for Python.	2 0	CO1	L1
b.	Explain Arithmetic Operators with Addition, Subtraction, Multiplication and Power.	2	CO1	L1
e.	What do you mean by Python IDE? Explain in detail.	2	CO1	L2
√d.	Discuss why python is interpreted language.	2	CO1	L1
-	Difference between the append() and extend() method of a List.	2	CO1	L1
Y.	Compare list and dictionary data structure.	2	C01	L3

2. Attempt any one of the following.

QN	QUESTION	Marks	CO	BL
a.	Write and explain an algorithm through python code to generate prime numbers.	5	CO1	L2
D.	Discuss the purpose of the pass, break and continue statement in loops with examples.	5	CO1	L4
c Co-	Write a program to calculate the sum of all numbers from 1 to a given number.	5	CO1	L4

3. Attempt any five questions.

QN	QUESTION	Marks	CO	BL
✓a.	What is the use of dictionary in Python?	2 9	CO2	L1
b.	What are logical operators and bitwise operators in python?	2	CO2	L3
c.	Write a program to print first 10 natural numbers using while loop.	2	CO2	L1

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d.	What will be the output of the following Python code? i = 0	2	CO2	L3	
	while i< 5:				
	print(i)	.00			
	i += 1 else:				
	print(0)				
	What is the difference between Python module and Python package?	2	CO2	L1	
e.		<u> </u>	COZ	1/1	
f	What will be the output of the following Python code?	2	CO2	L2	
1.	def cube(x):				
22	return x * x * x				
=	x = cube(3) print x			,	
	print A				ı

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. Atten	npt any one of the following.				
a.	Write a program to display the Fibonacci sequence in Python.	5	CO2	L4	
b. /	Discuss list data structure of python. Explain various inbuilt methods of list with suitable example of each.	5	CO2	L5	
c.	Write a python program to count the vowels present in given input string. Explain the output of program through example.	5	CO2	L4	
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