



VIT

Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act. 1956)

REG.NO.:

SCHOOL OF COMPUTER SCIENCE AND ENGINEERING
CONTINUOUS ASSESSMENT TEST - I
WINTER SEMESTER 2024-2025

SLOT: D1

Programme Name & Branch : B.Tech. CSE with specialization in Business Systems

Course Code and Course Name : CBS1011 Programming in Python

Faculty Name(s) : Dr. Geraldine Bessie Amali, Dr. Ajitha

Class Number(s) : VL2024250505138, VL2024250505139

Date of Examination : 30/01/2025

Exam Duration : 90 minutes

Maximum Marks: 50

Q. No	Question	M	CO	BL
1.	Give the output for the following code run in the interactive mode sequentially: (i) >>> type("I am a student") (ii) >>> 2+4*8/5 (iii) >>> 2**2**3 (iv) >>>x=3 >>>y=2 >>>x y (v) >>> y-=2*3 (vi) >>>x+="hello" (vii) >>>z=input() 2+3 >>>z (viii) >>>g=1 >>>x^g (ix) >>> x,g=g,x >>>x (x) >>>3+2j*4	10	1	3
2.	A) Write a python code to print the following pattern scaled up to any level Sample input: 4 Sample output: * ** *** ****	5	2	3
	B) Explain the difference between break and continue with a suitable example.	5		
3.	A) Write a Python code to remove all the punctuations in a given text. The punctuations to be considered are '?', ',', '!', '.', ':' and '<u>'</u>'	5	2	3
	B) Given a string write a Python code to display the no. of occurrences of each vowel. For example, if the text is "Hi How are you?" then the Python	5		

code must print letter 'a' followed by number of times 'a' has occurred and so on...

4. A) Debug the following code:

```
A = []  
for i in range (5)  
A[0] = 'a' (2 marks)
```

B) Retrieve the day from the given date in the following format dd/mm/yyyy (2 marks)

C) What is the output of the following code?

```
A = [ 1 ,2,3]  
A.extend(['a','b'])  
print(len(A)) (1 mark)
```

D) Given a list with duplicate values write a python code to remove the duplicates in the list.

Note: The input should not be hard coded to the given sample I/O. It should be got from the user.

Sample I/O"

Input:

```
L = [ 1 2 3 4 2 1 5 6 3 7]
```

Output:

```
L= [1 2 3 4 5 6 7]
```

5. Given two lists of numbers write a python code to display the numbers in the first list whose sum of individual digits is equal to one of the numbers in the second list

Sample Input:

```
L = [23, 33, 156, 789, 30, 14]
```

```
M = [ 5, 12, 0, 6]
```

Sample Output:

```
[ 23, 33, 156, 14]
```