Write four methods available in the dictionary along with example.

## Page 1 of 2

Paper Code: MCA 106 Time: 2 Hours			Subject: Python Programming Maximum Marks:					
					Ν	Note: Attempt THREE questions in all. Question No. 1 is compulsory, and attempt one		
		question from	each unit.					
1.	Ans	wer all the following questions briefly: -	2.5 × 10 =					
	(a)	Differentiate between break and contin	ue statement with example.					
	(b)	Compare and contrast packages with co	omposition.					
	(c)	Create a simple phone book program t	hat stores names and phone numbers					
		in a dictionary						
	(d)	List the differences between set and fro	zen set.					
	(e)	Illustrate the life cycle of a thread.						

- Explain the significance of finally block in exception handling. (f)
- (g) Articulate the concept of polymorphism relating python programming with real-world application.
- (h) Explain map() and zip() function with example.
- Justify the purpose of \*kwargs parameters (i)
- (j) Discuss grid() method of Tkinter.

## **UNIT-I**

2.	(a)	Write a Python program to find roots of a quadratic equation.	5
	(b)	Articulate concept of scope and lifetime of variables in Python Programming language with help of an example.	5
3.	(a)	Define short circuit evaluation performed by Python with help of an example.	5
	(b)	Demonstrate the working of following statements along with syntax and example i) for loop ii) while loop	5

UNIT - II

Explain the significance of a Dictionary in Python Programming

# Bharati Vidyapeeth's

# Institute of Computer Applications and Management (BVICAM) A-4, Paschim Vihar, New Delhi-63

SECOND SEMESTER [MCA] Reappear Examination, May 2024

### Paper Code

4.

(a)

language.

# ramming

### m Marks: 60

5

	(b)	Write a program to copy odd number of lines from one file to another.	
5.	(a)	Demonstrate a program to sort a list without using built-in function.	5
	(b)	Evaluate the purpose of using strings in python and explain few methods with example.	5
		UNIT-III	
6.	(a)	Discuss Synchronization using locks and semaphores with example.	5
	(b)	Demonstrate the concept of multiple inheritance through a program.	5
7.	(a)	Write a program to overload addition operator in python.	5
	(b)	Create a class to find cube of a number entered by the user. Throw an	5
		exception if string is given as input by user.	
		UNIT-IV	
8.	(a)	With help of a python script, plot a bar chart using seaborn library for number of boys and girls present in a class.	5
	(b)	Mention two ways of creating a 2-D array. Explain 5 functions that can be performed on 2-D array with help of an example.	5
9.	(a)	Create a radio button, check box, and drop-down menu using Tkinter library.	5
	(b)	Explain the process of database connectivity in Python.	5