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Reg.No : .....

Name : .....

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**  
**MGU-BCA (HONOURS) Regular EXAMINATION October 2025**  
**Third SEMESTER**  
**Skill Enhancement Course (SEC) - MG3SECBCA200 - PYTHON**  
**PROGRAMMING**  
(2024 ADMISSION ONWARDS)

**Duration: 1 Hour 30 Minutes**

**Maximum Marks: 50**

*Remember(K), Understand(U), Apply(A), Analyse(An), Evaluate(E), Create(C), Skill(S), Interest(I)  
and Appreciation(Ap)*

Students should attempt at least one question from each course outcome to enhance their overall outcome attainability.

**Part A**

Very Short Answer Questions

Answer all questions

Each question carries 2 marks

1. Identify the operator that has higher precedence: `and` or `or`. [U] / [CO1]
2. Write a Python program where a tuple of integers is passed to a function that calculates and returns the sum of all elements. [A] / [CO2]
3. Why exception heirarchy is important in Python? [U] / [CO3]
4. What is the difference between a statement and an expression in Python? [U] / [CO1]
5. Write the syntax of a lambda function. Construct a lambda function to add two numbers. [A] / [CO2]
6. Discuss the syntax of if...else statement in Python with an example. [K] / [CO1]
7. Mention the function in `math` module which is used to find the square root of a number? [K] / [CO2]
8. List two libraries in Python used for Data Visualization. [K] / [CO3]

9. Write down the statement to extract the first 4 characters of "MyPythonWorld". [U] / [CO1]

10. State the use of the pickle module in Python. [K] / [CO3]

**[2x10 = 20]**

### **Part B**

Short Answer Questions

Answer any **3** questions

Each question carries **5** marks

11. Write a program to print m raise to power n, where m and n are read from the user. [A] / [CO1]

12. State and explain any five dictionary functions with examples. [K] / [CO2]

13. Write a program that reads a text file and analyzes the frequency of each alphabet letter (a-z). [A] / [CO3]

14. Develop a Python program to create a dictionary from two lists: keys = ["id", "name", "age"] values = [101, "Anu", 21]. Display the dictionary and update the "age" to 22. [A] / [CO2]

15. Write a program to check whether a string is palindrome or not. [A] / [CO1]

**[5x3 = 15]**

### **Part C**

Essay Questions

Answer any **1** questions

Each question carries **15** marks

16. Describe the history of Python in detail. [U] / [CO1]

17. Design a mini calculator program using a user-defined function that supports addition, subtraction, multiplication, and division. Make use of a default parameter for the operator. Demonstrate different function calls and outputs. [A] / [CO2]

**[15x1 = 15]**