



# MUTHAYAMMAL ENGINEERING COLLEGE

(An Autonomous Institution)

(Approved by AICTE, New Delhi, Accredited by NAAC & Affiliated to Anna University)  
Rasipuram - 637 408, Namakkal Dist., Tamil Nadu.

## Department of Computer Science and Engineering Question Bank - Academic Year (2021-22)

**Course Code & Course Name** : 21GES08-Python Programming  
**Name of the Faculty** : M.Azhagesan  
**Year/Sem/Sec** : I / II / B

### Unit-I:Introduction

#### Part-A (2 Marks)

1. Define Python and list out the some features?
2. What is python interpreter?
3. Define Debugging?
4. Define Problem Solving?
5. What are natural languages and Formal Languages?
6. What is a variable? What are the rules for naming a variable?
7. What are keywords?
8. What are expressions?
9. What is a statement?
10. What are logical operators and Bitwise operators?

#### Part-B (16 Marks)

1. Differentiate Natural Language and Formal Language. (16)
2. Explain Python Installation in detailed steps. (16)
3. Define Problem Solving and the way of Programming. (16)
4. What is Python Interpreter? Explain how Python programs are interpreted with example. (16)
- 5.(i) Detailed about the python iteration? (8)  
(ii) Explain the precedence of operators? (8)

## **Unit-II : Functions, Strings**

### **Part-A (2 Marks)**

1. Define function?
2. What are the advantages of using function?
3. Define parameter and argument?
4. What is a string? How is it accessed?
5. Explain about string slicing with examples.
6. What are the two operators that are used in string functions?
7. What is the use of str.upper() and str.lower() functions in string?
8. iString comparison with an example?
9. How to split strings and what function is used to perform that operation?
10. Define composition and Recursion?

### **Part-B (16 Marks)**

1. Explain the function arguments in python. (16)
- 2.(i) Explain call by value and call by reference in python. (8)  
(ii) Briefly explain about function prototypes with examples. (8)
3. What is String? How do you create a string in Python? Explain various string functions with examples. (16)
- 4.(i) What are fruitful functions? Explain fruitful functions with examples. (8)  
(ii) Explain the various built in functions available in python. (8)
5. How to perform a user input in Python? Explain with example. (16)

## **Unit-III : Lists, Tuples, Dictionaries**

### **Part-A (2 Marks)**

1. Define the python list?
2. Define the uses of lists in python?
3. Explain the python updating lists?
4. Explain python delete list elements?
5. Define the python list index?
6. Explain the slice list in python?
7. Define Tuples?
8. Define methods in a Dictionaries?
9. Define concatenation of two lists?
10. Describe list membership?

### **Part-B (16 Marks)**

1. Explain in detail about python lists. (16)
- 2.(i) Briefly explain basic tuple operations in python. (8)  
(ii) Explain in detail Advanced List operations with example. (8)
3. Write short notes on List comprehension and Cloning. (16)
4. Discuss the following list functions (16)  
a) len() b) sum() c) any() d) all() e) sorted() f) append() g) extend()  
h)insert() i) index() j) sort()
5. Explain detailed about the dictionaries. (16)

### **Unit-IV : Files, Modules, Packages**

#### **Part-A (2 Marks)**

1. What is a file?
2. What are the various file operations?
3. What are the various python file modes?
4. What is a directory?
5. What are relative path and absolute path?
6. How the exception perform?
7. What is Package?
8. What is a text file?
9. What is a file object?
10. How does try and execute work?

#### **Part-B (16 Marks)**

1. Write a file program that copies a file reading and writing up to 50 characters at a time. (16)
2. Write a program to perform exception handling. (16)
3. Explain briefly about modules. (16)
4. Explain briefly about packages. (16)
- 5.(i) Write a Python program to illustrate the use of command-line arguments. (8)  
(ii) Write a program to handle multiple exceptions. (8)

### **Unit-V : Tensor flow, Keras**

#### **Part-A (2 Marks)**

1. What is Tensorflow?
2. What are the Shapes available in Tensorflow?
3. What is Keras?
4. What is meant by sessions and variables in Tensorflow?
5. How to install the Tensorflow in python?
6. What are the types in Tensorflow?
7. Mention Some useful TensorFlow operators?
8. How to install the Keras in python?

9. Mention the keras modules?
10. What is Keras layers?

**Part-B (16 Marks)**

1. Briefly explain about the Tensorflow concepts. (16)
2. Detail about the Tensorflow graph. (16)
3. What is keras? Explain the keras layers and keras modules. (16)
4. Write the keras installation steps. (16)
5. Differentiate the Tensor flow and keras. (16)

**Course Faculty**

**HoD**