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 Information Technology
Question Bank - Academic Year (2019-20)

Course Code & Course Name	:	**19GES08-Python Programming**
Name of the Faculty	:	**Mr.S.GOPI**
Year/Sem/Sec	:	**I / II / -**

Unit-I: Introduction
Part-A (2 Marks)

1.   Define Python
2.   Give the features of python.
3.   What is python interpreter?
4.   Define Problem Solving
5.   Define Program
6.   What are natural languages
7.   What are Formal Languages
8.   What are Programming Languages
9.   Define Debugging
10.   What are Tokens

Part-B (16 Marks)

1.   Differentiate Natural Language and Formal Language (16)
2.   Explain Python Installation in detailed steps (16)
3.   What are the various Python modes?. Explain them with examples (16)
4.   What is Python Interpreter?. Explain how Python python programs are interpreted with Example (16)
5.   Define Problem Solving and the way of Programming (16)

Unit-II : Variables, Expressions and Conditionals
Part-A (2 Marks)

1.   What is a variable?
2.   What are the rules for naming a variable?
3.   What are keywords?

4.	What are the rules for writing an identifier?

5.	What are expressions?

6.	What is a statement?

7.	What operators does python support?

8.	What is an Arithmetic operator?

9.	What are logical operators and Bitwise operators?

10.	Mention the features of identity operators?

Part-B (16 Marks)

1.	Explain the data types in python	(16)

2.	Explain briefly constant, variables, expression, keywords available in python	(16)

3.	Explain about various conditional statements in python with examples	(16)

4.	Explain about various iterative statements in python with examples	(16)
5.	What are the operators supported by Python? Explain precedence operators with examples	(16)

Unit-III : 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.	Explain string 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 u create a string in Python? . Explain various string functions	(16)
	with examples
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-IV : 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.	Briefly explain basic tuple operations in python	(16)
3.	Briefly explain python dictionary.	(16)
4.	Explain in detail Advanced List operations with example	(16)
5. (i).	Write short notes on List comprehension and Cloning	(8)
(ii).	Discuss the following list functions a) len() b) sum() c) any() d) all() e) sorted() f) append() g) extend() h) insert() i) index() j) sort()	(8)

Unit-V : 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. What is an exception?

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)

Course Faculty   **HoD**