UNIT-I

1. a) What are IDLE usability features?

   b) Explain about keywords used in Python.

2. a) Discuss bout variables and assignments.

   b) Explain about IDLE startup details.

3. a) Discuss about IDLE basic usage.

   b) Who uses python today? What are Python's technical strengths?

4. a) Briefly discuss about running Python scripts.

   b) Write the history of Python.

5. a) Explain input function.

   b) Explain output function.

6. a) What is indentation?

   b) What is byte code?

7. Explain about the need for learning python programming and its importance.

8. Write in brief about the applications of Python.

9. Explain the basics for executing a python program using REPL(Shell) with an example.

10. Write a python program to read input using REPL(Shell) and display the output.

UNIT-II

1. a) What are 4 built-in numeric data types in Python? Explain.

   b) Describe Python jump statements with examples.

2. a) What are Python assignment operators? Explain.

   b) Explain about iteration statements with examples.

3. a) What are relational operators used in Python? Explain.

   b) Explain about string formatting operator with example.

4. a) Explain Python bitwise operators with example.

   b) Discuss about Python operators precedence with example.

5. a) Give an example of lstrip( ) method.

   b) Give an example of istitle( ) method.

6. a) Give an example of isalnum( ) method.

   b) Give an example of endswith( ) method.

7. a)Explain about different Logical operators in python with appropriate examples.

   b)Explain about Membership operators in python with appropriate examples.

8. a)Explain about Identity operators in python with appropriate examples.

   b)Explain about Arithmetic operators in python with appropriate examples.

9. List different conditional statements in python with appropriate examples.

10. What are the different loop control statements available in python? Explain with suitable examples.

UNIT-III

1. a) Explain in detail about dictionaries in Python.

   b) Discuss about tuples in Pyhton.

2. a) Discuss about immutable constraints and frozen sets.

   b) What are built-in dictionary functions? Explain.

3. a) Explain about built-in functions of tuple.

   b) Discuss about list and dictionary comprehensions.

4. a) What are built-in dictionary functions? Explain.

   b) Explain about the importance of lists in Python.

5. a) How to access values in a dictionary?

   b) Describe type( ) method with example.

6. a) Describe has_key( ) method with example.

   b) What is a set? Why sets?

7. Explain about methods in Lists of Python with appropriate examples.

8. Write in brief about Set in python.Write operations with suitable examples.

9. Write in brief about Sequence in python.Write operations with suitable examples.

10. Compare List and Tuple.

UNIT-IV

1. a) Describe anonymous functions examples.

   b) Why to use modules? How to structure a program?

2. a) Distinguish between local and global variables with examples.

   b) Briefly discuss about Python packages.

3. a) Explain about required and variable-length arguments.

   b) Discuss in detail about the import statement.

4. a) Write a brief note on PIP. Explain installing packages via PIP.

   b) Explain about keyword and default arguments.

5. a) What is default argument?

   b) What is the general form of lambda?

6. a) What is a namespace?

   b) Define anonymous function.

7. Explain about fruitful functions with suitable examples.

8. Explain about void functions with suitable examples.

9. Write about the concept of scope of a variable in a function.

10. Write about different types of arguments in a function.

UNIT-V

1. a) Explain creating classes in Python with examples.

   b) Define error and exception. Distinguish between these two features.

2. a) Explain about handling an exception.

   b) Describe data hiding and constructors.

3. a) Explain inheritance class with suitable example.

   b) Discuss about try except block with example.

4. a) Give an overview of OOP terminology.

   b) Explain about except clause with multiple exceptions.

5. a) What are basic overloading methods?

   b) Explain about self variable with example.

6. a) Explain user defined exceptions with examples.

   b) Give an example for raising an exception.

7. List the features and explain about different Object Oriented features supported
    by Python.

8. Explain the concept of method overriding with an example.

9. How to declare a constructor method in python? Explain.

10. How to handle an exception using try except block? Explain with the help of a program.

UNIT-VI

1. Why testing is required? Explain in detail.

2. Explain the following: i) Calendar module ii) Synchronizing threads

3. Explain about writing test cases and running tests.

4. Explain the following: i) TopLevel widgets ii) Scale widget

5. Explain about unit testing in Python.

6. Explain the following: i) zlib module ii) PanelWindow

7. What is multithreading? Discuss about starting a new thread.

8. Explain about colors and filled shapes.

9. a) Explain importing turtle graphics.

   b) Describe time.time( ) method.

10. a) What is time tuple?

    b) What is tick?

Signature of the faculty   Signature of the HOD