II B.TECH (ECE-A&B) QUESTION BANK -2021

**PYTHON PROGRAMMING**

**UNIT-I**

**10MARKS:**

1. Define Python. Explain the need of Python Programming.

2. Describe the features of Python Programming.

3. Explain REPL mechanism in detail

4. Explain a) Input-Output b) Indentation

5. Describe the ways of running the Python scripts.

6. What are the different areas that we apply python programming? Explain in detail.

7. Briefly explain the following: a) Keywords b) Assignment

8. What is Python? Explain the history of Python.

9. Explain the following: a) Variables b) Indentation

**2MARKS:**

1. Define Python.

2. List the Python Programming Applications?

3. Define assignment statement.

4. List some of the keywords in python.

5. Define Identifiers in Python.

6. What is the comment statement in python?

7. Define variables in python.

8. Give the features of Python.

9. What is Python Interpreter?

10. What are the rules for writing an identifier?

11. What are the rules for naming a variable?

**UNIT-II**

**10MARKS:**

1. Explain different data types in Python Programming.

2. Explain a) Arithmetic operators b) Assignment operators

3. a) Write a program to print the given number is Armstrong or not.

b) Write a program for Testing whether a given year is leap year or not.

4. Explain different decision loops.

5. Describe various unconditional control statements in detail.

6. Explain the following: a) Identity operators b) Logical operators c) Membership operators

7. Explain any 5 operators that we use in Python programming.

8. Explain the various control statements in Python.

9. a) Write a program to print whether given number is prime or not.

b) Explain break, continue, pass statements?

10. Explain a) Operator precedence b) Expressions and their evaluation.

**2MARKS:**

1. List the data types in python.

2. What are the operators in Python?

3. Define while loop.

4. What is meant by conditional If?

5. Define String .Give example.

6. Write a program for Swapping of two numbers.

7. What is meant by Python numbers?

8. What is an Arithmetic operator?

9. Write the syntax and usage of for loop.

10. What is Python break statement?

**UNIT-III**

**10MARKS:**

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

2. Explain the process of appending, updating and deleting the lists with example.

3. Write in brief about Tuple in python. Write operations with suitable examples

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

5. Write in brief about Dictionary in python. Write operations with suitable examples.

5. A) Differentiate between lists and tuples in Python?

B) Explain in detail about python type conversion and type casting.

6. Explain briefly sequences in Python with example.

**2MARKS:**

1. Define List. Give examples.

2. What is cloning of List?

3. What is aliasing?

4. Define tuple.Give examples.

5. What is slicing?

6. Define Dictionary. Give examples.

7. List the methods of list data type.

8. Differentiate between append() and extend() methods?

9. What is the difference between tuples and lists in python?

10. What is the difference between Del () and remove () methods of list?

**UNIT-IV**

**10MARKS:**

1. Explain the process of passing arguments in Python with example.

2. Explain a) Calling the functions b) Fruitful functions

3. Explain various actual arguments used in function call with example.

4. Explain the scope of variables with example.

5. Explain a) Anonymous functions b) Variable length arguments

6. Define module. Explain the process of creating modules with example.

7. Explain a) import statement b) from-import statement c) from statement

8. Explain name spacing in Python with example.

9. Define Package. Explain the process of creating and accessing the Python package with example.

10. Explain the steps involved in installing Python package via PIP.

**2MARKS:**

1. Define function. Mention the function types.

2. Define fruitful functions in python.

3. What are the types of parameters in functions?

4. Define Package.

5. Define module.

6. What are the various parameter passing techniques?

7. Write the scope of the variable.

8. What is recursive function?

**UNIT-V**

**10MARKS:**

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

2. Define inheritance. Explain various types of inheritance with example.

3. Explain a) Class b) self variable c) Constructor.

4. Explain a) Over riding Methods b) Data hiding

5. Explain errors and exceptions. Explain various types of errors with example.

6. Explain various standard exceptions briefly.

7. Explain the mechanism of try and except block in detail.

8. Explain user defined exceptions with example.

**2MARKS:**

1. Define Class. Give example.

2. What is mean by Inheritance and list the types?

3. What is mean by Overriding?

4. Define Constructor.

5. Differentiate Errors and Exceptions.