PYTHON PROGRAMMING

QUESTION BANK

UNIT 1 AND 2

1. What are the features of tuple data structure?

2. Explain about built-in functions in python.

3. Describe anonymous functions examples.

4. Explain creating classes in Python with examples.

1. What are different applications of Python? Give examples

2. What are the different **loop** control statements available in Python? Explain with suitable examples.

3. Write a Python program that calculates number of seconds in a day.

4. Explain how to implement **inheritance** in Python.

5. Python variables do not have specific types. Justify this statement with the help of an example.

6. Explain the rules for writing identifiers. Write any four keywords in Python.

7. List different **operators** in Python in the order of their precedence.

8. **Write a Python program that prints multiplication table of a given number.**

9. What is the **lambda** function? Write the characteristics of a lambda function. Explain the same with an example.

10. **Write a Python program that overloads plus operator to add two objects of a class.**

11. How to declare and call functions in Python programs? Illustrate with an example script.

12. **Write Python code to determine whether the given string is a Palindrome or not using slicing.**

13. Discuss about list and dictionary comprehensions in Python.

14. Write Python Program to Calculate Area and Perimeter of different Shapes using Polymorphism.
15. Write a Program to find area and circumference of circle by giving the radius as input from user end
16. Explain about required and variable-length arguments. (7M)
17. What do you mean by a constructor? List and describe various constructors used for converting to different data types.
18. Explain the diffrence between function and module, also write the program of simple arithmatic operators using function.
19. Write a Python program to create a person class. Include attributes like name, country and date of birth. Implement a method to determine the person's age.
20. What are the OOP characteristics of Python programming
21. Which are the build in data types in python and how we can declare them in the program
22. Write a Python Program using Function to calculate the factorial of a number
23. Write short note on Inheritance
24. What are the advantages and disadvantages of Encapsulation
25. Write a Python program to create a class representing a Circle. Include methods to calculate its area and perimeter.