

TILAK MAHARASHTRA VIDYAPEETH, PUNE
MASTER OF COMPUTER APPLICATIONS
EXAMINATION: DECEMBER - 2024
SEMESTER - III
Sub: Python Programming (MCA- 301-22)

Date : 26/12/2024

Total Marks : 60

Time: 2.00 pm To 4.30 pm

Instruction:

1. All questions are compulsory unless and otherwise stated.
2. Bold figures to the right of every question are the maximum marks for that question.
3. Candidates are advised to attempt questions in order.
4. Answers written illegibly are likely to be marked zero.
5. Use of scientific calculators, Log tables, Mollier Charts is allowed.
6. Draw neat and labelled diagram wherever necessary.

Q. 1. Answer the following in 2 - 3 lines. (Any 5) (10)

1. What is floor division in python?
2. What is reverse indexing in python?
3. What complex data type in python?
4. Explain membership operators in python.
5. Define the term object in python.
6. What is the use of pass statement in python.
7. What is __init__ in python?

Q. 2. Answer the following in short. (Any 4) (20)

1. Explain with example mutable and immutable data types in python.
2. Explain in detail about dictionaries in Python with two methods
3. State any five applications of python.
4. Describe Set in python with suitable examples with add () and update () method
5. What are python list methods?
6. Explain list, tuple, dictionary with example.

Q. 3. Answer the following in detail. (Any 3) (30)

1. What is exception handling in python? Explain different types of Exceptions in Python.
2. Explain inheritance in python with example.
3. What are packages? Give an example of package creation in Python.
4. Write a Python program to count Uppercase, Lowercase, special character, and numeric values in a given string
5. Explain Indexing and Slicing operation for string manipulation with example in python.
