

TILAK MAHARASHTRA VIDYAPEETH, PUNE
MASTER OF SCIENCE (M.Sc) in COMPUTER APPLICATIONS
EXAMINATION : DECEMBER - 2024
SEMESTER - III
Sub.: Python Programming (MSC-306-22)

Date : 28/12/2024

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 namespace in python?
2. What is the use of lambda functions?
3. Differentiate between global and local scope?
4. What is slicing in python?
5. What are membership operators available in python?
6. How you can reverse a list in python?
7. How is memory managed in Python?

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

1. Define Set. Explain any four SET operations in detail.
2. How you can create and use module in python.
3. How to access characters in a string by index numbers? explain traversing of string using suitable example
4. Define Exceptions. Explain Python exception handling in detail with suitable example.
5. What are python packages? Give example of some packages and its uses.
6. Explain append(), remove(), pop() , count() operations related to list.

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

1. Explain with suitable example recursion?
 2. Explain function in python with example.
 3. How does inheritance work in python? Explain it with an example.
 4. Explain the steps of database connectivity in python with suitable example.
 5. What is file? Explain different modes available in file handling?
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