

**TILAK MAHARASHTRA VIDYAPEETH, PUNE**  
**MASTER OF SCIENCE (M.Sc) in COMPUTER APPLICATIONS**  
**EXAMINATION : JUNE- 2022**  
**THIRD SEMESTER**  
**Sub.: Python Programming (MSC-305-19)**

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Date : 15/06/2022

Total Marks : 60

Time: 10.00 am to 12.30 pm

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**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.

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

1. Why python is called as high level programming language?
2. What do you mean by User-defined Exceptions?
3. Define any two tuple functions in brief.
4. What is the use of pass statement in python?
5. How to create list in python?
6. Define set intersection operation in python.
7. Define Class and objects in brief.

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

1. Write a Python program to sum all the items in a list.
2. Write a python program to Check whether the given number is prime or not.
3. Explain the steps for database connectivity in python with suitable example.
4. Explain control statements in python with example.
5. Explain python operators in details.
6. Define Inheritance. Explain single level inheritance with suitable example.

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

1. Define SET. Explain any four SET operations in detail.
  2. Define Exceptions. Explain Python exception handling in detail.
  3. Explain List functions & methods with suitable example..
  4. Explain following functions with suitable example: get(), has\_key(), items(), keys().
  5. Explain python loops with example.
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