

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 3625

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Unique Paper Code : 6332491201

Name of the Paper : Programming with Python

Name of the Course : **B.VOC (WEB DESIGNING)**

Semester : II

Duration : 3 Hours

Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. All Questions in Section-A is compulsory.
3. Attempt any four questions from Section-B.
4. Parts of a question should be attempted together.

Section A

- Q1. i. Explain the structure of a Python program with suitable examples. 5
- ii. Differentiate between identifiers and keywords in Python. 5
- iii. Explain conditional statements in Python with syntax and examples. 5
- iv. Define user-defined functions. Explain default arguments in Python functions. 5
- v. Differentiate between mutable and immutable objects in Python. 5
- vi. Explain the creation and operations of dictionaries in Python. 5

P.T.O.

Section B

- Q2. (a) Explain problem solving strategies in Python programming. Discuss the syntax and semantics of Python programs. 8
- (b) Explain literals, operators, expressions, and shorthand notation in Python with suitable examples. 7
- Q3. (a) Explain loop control statements in Python. Discuss for, while, break, and continue statements with examples. 8
- (b) Explain functions in Python. Discuss built-in functions, passing arguments, and returning values from functions. 7
- Q4. (a) Discuss string operations in Python. Explain string traversal, built-in functions, and string operators with examples. 8
- (b) Explain lists in Python. Discuss list creation, traversal, slicing, splitting, and passing lists to functions. 7
- Q5. (a) Explain tuples and sets in Python with suitable examples. 8
- (b) Discuss dictionaries in Python and explain their operations with examples. 7
- Q6. (a) Explain Object Oriented Programming concepts in Python. Discuss classes, objects, and methods with examples. 8
- (b) Explain input and output statements in Python with examples. 7
- Q7. (a) Explain the role of standard libraries in Python programming. 8
- (b) Discuss the use of assert functions in Python. 7