

**RAN-2011000305020086****B.Sc. (Sem. - V) Examination October - 2025****Computer Science - XI (Paper - 506) Python Programming - 1 (Old)****Time: 2 Hours ]****[ Total Marks: 50****સૂચના : / Instructions**

(1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.

Fill up strictly the above details on your answer book.

Seat No.:

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Student's Signature

**Q. 1. Answer the question in short. (Any Seven)****(14)**

1. Describe type() method with example.
2. What is use of val() and input() function?
3. How you can declare global variable in Python?
4. Can a Python function return multiple values? If yes, how it works?
5. Write for loop that prints odd numbers from 100 to 50, using range function
6. Write syntax and example of user define function.
7. What is an anonymous function?
8. List advantages of module.
9. What is difference between module and user define function.
10. Write syntax and example of dictionary.

**Q. 2. Write Answer for the following.****(12)**

1. Write detail note on about Features and application of python
2. Explain User Define function with parameter passing mechanism giving example.

**OR**

1. Discuss different operations that can be performed on a list? Explain with examples
2. Explain different loop control statements available in python? Explain with suitable examples.

**Q. 3. Write Answer for the following.****(12)**

1. Discuss string object of python also discuss any three methods of it
2. Write detail note on Numpy Library.

**OR**

1. Explain functions related with center tendency measures.
2. Explain File handling in details.

**Q. 4. Write Answer for the following.****(12)**

1. Differentiate between lists and tuples in Python?
2. Define data frame? Why it is use ? Explain describe(),head(),tail() and iloc() function of it.

**OR**

1. Write detail note on matplotlib library.
2. What is Module? How to create and use module explain giving example.