

Question Paper consists of FIVE units, each carrying 14 marks
Each unit has TWO questions; either of them should be answered
All parts of a question must be answered at one place

1.a) What are the features and applications of Python? (7M)
1.b) What is data type? List out the types of data types with example. (7M)

(OR)

1.c) What is an operator and explain about the arithmetic operators and assignment operators in Python with example (7M)
1.d) Explain about identity operators and operator precedence and associativity with example. (7M)

2.a) Define the following with the necessary examples. (7M)

i. if statement ii. if-else-if statement iii. nested-if statement

2.b) Elucidate the string and its methods with example (7M)

(OR)

2.c) Write a python program to check whether a given number is palindrome or not (7M)
2.d) Python strings are immutable. Justify (7M)

3.a) Write code snippets in Python to perform the accessing elements of a list, modifying elements of a list, and deleting elements of a list. (7M)

3.b) What is dictionary? Explain the methods available in dictionary (7M)

(OR)

3.c) What is the purpose of import statement in Python. Explain how many ways to import module in python (7M)

3.d) Write a python program to concatenate two lists (7M)

4.a) What is meant by Text File? Explain about reading and writing files in python? (7M)

4.b) Illustrate the use of creating a class, constructor, the self variable with the necessary examples (7M)

(OR)

4.c) List and explain various object-oriented programming concepts available in Python programming. (7M)
4.d) Explain how to write test cases in Python. (7M)

5.a) Explain the exception handling techniques in Python (7M)

5.b) Explain about RadioButton widget in tkinter. How to create two radiobutton sets (one for gender and another for Indian or not) on the same canvas. (7M)

(OR)

5.c) Describe in detail about user – defined Exceptions (7M)
5.d) Write a Python GUI program to create three single line text-box to accept a value from the user using tkinter module. (7M)
