

Duration: 2:30 hrs

Marks:- 75

Note:- 1) All questions are compulsory.
2) Figures to the right indicate maximum marks.

- I) Attempts any three of the following. 15 M
- What is Python? List and explain features of Python. [CO1U]
 - What is a Variable? What are the rules to name a variables? [CO1R]
 - What is the difference between operator and operand? [CO1R]
 - Explain the difference between : Brackets, Braces and Parentheses. [CO1U]
 - Write a Python Program to find whether a given number is even or odd, print out proper message to the user. [CO1R]
 - Explain the if... else with examples. [CO1R]
- II) Attempt any three of the following 15M
- What is function, explain with an example. [CO2U]
 - Explain how to add new function. [CO2R]
 - Explain return values in function. [CO2R]
 - Write a short note on Recursion. [CO2R]
 - Explain traversal with a for loop with an example. [CO2R]
 - 'Strings are immutable'. Explain? [CO2R]
- III) Attempt any three of the following 15M
- Write a Python Program to get the largest number from a list. [CO3A]
 - What is tuple? Explain with example? [CO3R]
 - What are the different tuple operations? [CO3R]
 - Write a Python Program to Slice a tuple? [CO3A]
 - Write a Python Program to remove a Key from a dictionary. [CO3A]
 - What are built in exceptions? [CO3R]
- IV) Attempt any three of the following 15M
- Define class, a class variable and data member. [CO3R]
 - Explain the Scope. [CO4R]
 - Explain the inheritance with example. [CO4R]
 - How to create an instance of Objects? [CO4U]
 - What are the different types of Regular expression? [CO4R]
 - Explain Data hiding? [CO4R]
- V) Attempt any three of the following 15M
- Explain all the Widgets. [CO5R]
 - Explain the "INSERT Command". [CO5A]
 - Explain the widget attributes and properties. [CO5R]
 - Explain the "DELETE Command". [CO5A]
 - Explain Panel window with an example. [CO5R]
 - What is the use of list box widget? Give an example to add elements to list box [CO5A]