DURATION: - 2½ hrs   731161024   MARKS:- 75

Note: - (1) All questions are compulsory.
      (2) Figures to the right indicate full marks
      (3) Answer to each question must being on a new page

Q.1) Attempt the following (Any 3)   **15M**
1) What is Python? List and explain features of python   CO1-U
2) Explain the difference between: Brackets, braces and parentheses   CO1-U
3) Write a Python program to find whether a given number is even or odd, print out proper message to the user   CO1-R
4) Explain the if… else with examples   CO1-R
5) Explain the use of break statement and continue statement in loop with example   CO1-A
6) Explain the interactive and script mode   CO1-R

Q.2) Attempt the following (Any 3)   **15M**
1) What is function, explain with an example   CO2-U
2) Write a short note on Recursion   CO2-R
3) Explain traversal with a for loop with an example   CO2-R
4) 'Strings are immutable' Explain   CO2-R
5) Explain parameters and arguments used in function   CO2-A
6) Explain fruitful function and void function with an example   CO2-R

Q.3) Attempt the following (Any 3)   **15M**
1) Explain different list operations with example   CO3-A
2) What are the difference between list and tuple?   CO3-A
3) Write a python program to find the Index of a item of a tuple   CO3-U
4) Write a short note on tuples   CO3-R
5) Write a python program to slice a tuple   CO3-R
6) What is exception handling? How does it work?   CO3-R

Q.4) Attempt the following (Any 3)   **15M**
1) What is regular expression and explain its types   CO4-R
2) Explain atleast 10 various pattern of regular expression with example   CO4-R
3) Explain match () function with suitable example   CO4-R
4) Explain search () function with suitable example   CO4-R
5) Explain class inheritance in python with an example   CO4-U
6) What is method overriding? Write an example   CO4-A

Q.5) Attempt the following (Any 3)   **15M**
1) How to import the Tkinter?   CO5-R
2) Explain the layout management feature   CO5-R
3) Explain spin box with an example   CO5-U
4) Explain check button widget with example   CO5-U
5) Explain the delete command   CO5-A
6) Write a Program in python to create a login page   CO5-A

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