

P131 /ICT152 /EE/2024

Time : 3 Hours

Marks : 80

Instructions :

1. All Questions are Compulsory.
2. Each Sub-question carry 5 marks.
3. Each Sub-question should be answered between 75 to 100 words. Write every questions answer on separate page.
4. Question paper of 80 Marks, it will be converted in to your programme structure marks.

1. Solve any four sub-questions.

20

- a) What are the key features of python.
- b) Explain the data types in python.
- c) What is interpreter? Explain how python interpreter works.
- d) What are exceptions in python? How to handle exceptions in python?
- e) Write a python program that finds the factorial of natural number n.

2. Solve any four sub-questions.

20

- a) List the different types of operators in python language ? Explain membership operator in python.
- b) What is chained conditional statement ? Write down syntax and suitable example.
- c) Write a program to find sum of digits of a number using while loop
- d) Explain usage of continue break and pass key word in python.
- e) Write a python program to find reverse of given number using user defined function

3. Solve any four sub-questions.

20

- a) what is a string? Explain different string operations in Python with examples.
- b) Write a Python program to read a text file and do following Operations. 1) Print number of words, 2) Print number of lines.
- c) Write a note on arrays in Python.
- d) Define tuples, How tuples are created in Python?
- e) Describe list slicing with examples.

4. Solve any four sub-questions.

20

- a) What is dictionary in python? Explain any four built in dictionary methods with examples.
- b) Explain any four methods for regular expression with proper example in Python.
- c) Explain steps to create widgets. Write a python programme to display a label on clicking push button.
- d) What is Data Visualization? Explain various methods of matplotlib?
- e) Write a Python program for connecting SQLite database and perform insert and delete Operation.