

- NOTE: 1. Figure should be neat and labelled
2. All questions are compulsory
3. Right side indicates marks

1. Answer the following (Attempt any four)

[20 marks]

- Explain programming language paradigms.
- Write an algorithm and draw a flowchart to find simple interest.
- Describe translator and its types.
- What are different data types in python.
- Explain relational, arithmetic, logical, assignment operators in detail.
- Write a program to calculate perimeter and area of rectangle in python.
- Write any 5 built-in functions in python with syntax and example.
- Describe various structure of a program in detail.

2. Answer the following (Attempt any four)

[20 marks]

- Write a program to display an item list at index value 2 and delete that item.
- Write a program to swap items in two list.
- Explain `isalnum()`, `istitle()`, `replace()` with examples.
- Describe break and continue statement using program.
- Explain basic syntax of for loop with an example.
- Describe nested if statement with an example.
- Write while loop with an example.
- Write a program to show if-else statement.

3. Answer the following (Attempt any four)

[20 marks]

- Show difference between local and global variable using program.
- Describe anonymous function in python.
- Write a function to calculate area of triangle and call the function.
- Create grocery module and import that module in the program.
- How to merge two dictionaries.
- Explain key value pair in a dictionary with example.
- Explain time module in python.
- Explain function with keyword arguments.

10/10/15

4. Answer the following (Attempt any three)

[15 marks]

- a. Write dictionary methods with examples.
- b. Write a program to input employees salary and find minimum and maximum salary among employees using tuples
- c. Describe list operations with examples.
- d. Write a program to display table of 4.
- e. Mention symbols in flowchart and explain advantages of flowchart.
- f. Using for loop, write program that prints out the decimal equivalent of $\frac{1}{2}$, $\frac{1}{4}$, ----

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