

**Question Paper Code : 51224**

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2024.

First Semester

Civil Engineering

**GE 3151 – PROBLEM SOLVING AND PYTHON PROGRAMMING**

(Common to all Branches)

(Also Common to PTGE 3151 – Problem Solving and Python Programming for  
B.E. (Part-Time) First Semester – All Branches – Regulations – 2023)

(Regulations 2021)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

**PART A — (10 × 2 = 20 marks)**

1. Differentiate Algorithm and Pseudo code.
2. Write any two disadvantages of flowchart?
3. What is the difference between interactive mode and script mode?
4. Mention the features of lists in python.
5. What is 'len' function? Give example for how it is used on strings.
6. How to split strings and what function is used to perform that operation?
7. What is range( ) function and how it is used in lists?
8. What are the advantages of 'Tuple' over 'List'?
9. What is module and package in Python?
10. List few common exception types.

**PART B — (5 × 16 = 80 marks)**

11. (a) (i) Explain the steps involved in program development cycle. (8)
- (ii) Write the algorithm, pseudocode and draw the flowchart for the following :
  - (1) Guess an integer number in a range. (4)
  - (2) Towers of Hanoi. (4)

Or

# F322014 May Question Paper

**Mark Steyvers**



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