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## Question Paper Code: 54009

#### B.E./B.Tech. DEGREE EXAMINATION, JANUARY 2018

First Semester

Civil Engineering

#### GE 8151 – PROBLEM SOLVING AND PYTHON PROGRAMMING

(Common to All Branches)

(Regulations 2017)

Time: Three Hours

Maximum: 100 Marks

#### Answer ALL questions.

PART - A

(10×2=20 Marks)

- 1. What is an algorithm?
- 2. Write an algorithm to accept two numbers, compute the sum and print the result.
- Name the four types of scalar objects Python has.
- 4. What is a tuple? How literals of type tuple are written? Give example.
- 5. Write a Python program to accept two numbers, multiply them and print the result.
- Write a Python program to accept two numbers, find the greatest and print the result.
- 7. What is a list? How lists differ from tuples?
- 8. How to slice a list in Python?
- 9. Write a Python script to display the current date and time.
- 10. Write a note on modular design.

#### PART - B

(5×16=80 Marks)

680

- a) i) Draw a flow chart to accept three distinct numbers, find the greatest and print the result.
  - Draw a flow chart to find the sum of the series 1 + 2 + 3 + 4 + 5 + ......+ 100.

(OR)

 b) Outline the Towers of Hanoi problem. Suggest a solution to the Towers of Hanoi problem with relevant diagrams.

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web the ag aq and cl aq ions become agcl s but the na aq ions and the no 3 aq ions stay as na aq ions and no 3 aq ions these two ions are examples of spectator ions ions that do nothing in the overall course of a chemical reaction

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web aug 8 2022 a spectator ion is an ion that does not take part in the chemical reaction and is found in solution both before and after the reaction the net ionic equation is the chemical equation that shows only those elements compounds and ions that are directly involved in the chemical reaction

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web jun 2 2023 the spectator ions are cut out from a reaction hence the net ionic equation for the above reaction would be 2cl aq cu 2 aq cucl 2 s 2cl aq cu 2 aq cucl 2 s these spectator ions are not actively involved in the reaction the existence of spectator ions affects the debye length