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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

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Maximum: 100 Marks

Answer ALL questions.

PART - A

 $(10\times2=20 \text{ Marks})$

- 1. What is an algorithm?
- 2. Write an algorithm to accept two numbers, compute the sum and print the result.
- 3. 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.
- 6. 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?

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- 9. Write a Python script to display the current date and time.
- 10. Write a note on modular design.

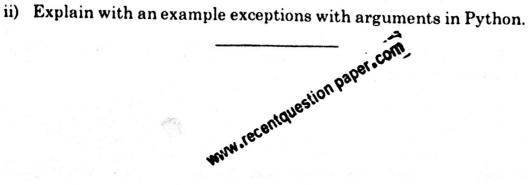
PART - B

 $(5\times16=80 \text{ Marks})$

- 11. a) i) Draw a flow chart to accept three distinct numbers, find the greatest and print the result. (8)
 - ii) Draw a flow chart to find the sum of the series $1+2+3+4+5+\ldots+100$. (8)

(OR)

b) Outline the Towers of Hanoi problem. Suggest a solution to the Towers of Hanoi problem with relevant diagrams. (16)



(6)

(10)

b) i) Appraise the use of try block and except block in Python with syntax.

(OR)