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Reg. No.:						

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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conventional method for designing surface finish as per is 696 surface texture specified by indicating the following a roughness value i e ra value in mm e b machining allowance in mm e sampling length or instrument cut off length in mm e machining production method and e direction of lay in the symbol form as e m e r

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for jis symbols specify roughness ra roughness rz rmax for gost symbols you can also select use for notation displays the surface finish symbol 0 5 times larger than the default size add default symbol displays the default surface finish symbol in parentheses format use document font

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bs en iso 1302 2002 geometrical product specifications gps indication of surface texture in technical product documentation

for notes on surface roughness use link surface roughness notes the symbol indicates the surface finish requirements and shows a machining allowance requirement of 3mm on all surfaces

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let s take a look how the jis defines each type of plating such as chrome plating and zinc plating the jis defines the types grades and symbols for electro galvanizing as shown in the table below

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1 positions of auxiliary symbols for surface symbol a surface roughness value cut off value or reference length machining method grain direction surface undulation etc are indicated around the surface symbol as shown in fig 1 below fig 1 positions of auxiliary symbols

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surface symbol symbol indicating a surface where removal processes are prohibited symbol indicating a surface that requires a removal process examples of indicating the ra upper limit a b c example of indicating grain direction examples of indicating ra upper limit and lower limit a b examples of indicating the machining method

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surface finish symbols you can specify the surface texture of a part face by using a surface finish symbol you can select the face in a part assembly or drawing document surface finish symbols are formed by combining the symbol and lay direction direction of lay

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