

Reg. No. :

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Question Paper Code : 91208

B.E./B.Tech. DEGREE EXAMINATION, AUGUST 2021

First Semester

Civil Engineering

19UCS108- PROBLEM SOLVING AND PYTHON PROGRAMMING

(Common to ALL branches)

(Regulation 2019)

Duration: 1:45 hour

Maximum: 50 Marks

PART A - (10 x 2 = 20 Marks)

(Answer any ten of the following questions)

1. Differentiate compiler and interpreter. CO1 Ana
2. Discuss handling of comment lines in python. CO2 R
3. Compare the statements: break and continue CO3 Ana
4. Annotate Lambda function in python with an example. CO4 U
5. Comprehend list slicing with an example. CO5 U
6. List the types of software with examples. CO1 U

7. State the structure of a Python program. CO2 U
8. Develop a Python program to print the sum of N numbers. CO3 App
9. Define Lambda function with an example. CO4 R
10. Outline Tuples with examples. CO5 R

11. Write two characteristics of pseudo code. CO1 U
12. Give the reasons to divide programs into functions. CO2 U
13. Present the flow of execution of while statement CO3 App

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| 14 | Give a function that can take a value and return the first key mapping to that value in a dictionary | CO4 R |
| 15 | How to slice a list in Python? | CO5 R |

PART – B (3 x 10= 30 Marks)

(Answer any three of the following questions)

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| 16. | Draw a flow chart to print the first 'n' prime numbers. | CO1- U | (10) |
| 17. | Outline the various Operators and Expressions in Python with examples. | CO2- U | (10) |
| 18. | Develop a Python program to calculate the sum of numbers from 1 to 20 which are not divisible by 2, 3 or 5. | CO3- App | (10) |
| 19. | Outline parameters and arguments in functions with examples. | CO4- App | (10) |
| 20. | Demonstrate with code the various operations that can be performed on lists. | CO5- U | (10) |