

Reg. No.:

Name :



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Mid-Term Examinations – October 2021

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|-----------|--|-----------------|-----------------------|
| Programme | : B. Tech | Semester | : Fall 2021-22 |
| Course | : Introduction to Problem Solving and Programming | Code | : CSE1021 |
| Faculty | : Divya Thakur | Slot/ Class No. | : D11+D12+D13 |
| Time | : 1 ½ hours | Max. Marks | : 50 |

Answer all the Questions

| Q.No. | Sub. Sec. | Question Description | Marks |
|-------|-----------|--|-----------|
| 1 | | Write the algorithm, pseudocode and draw the flowchart for the following: a) To find the sum of square root of any three numbers. b) To find the sum of first 100 integers. c) To find the sum of all odd numbers till 100. | 10 |
| 2 | | What do you understand by the complexity of an algorithm, explain in detail | 5 |
| | | Write a program to check whether entered string is palindrome or not | 5 |
| 3 | | Write short notes on types of operators in python with appropriate example. | 10 |
| 4 | | What do you understand by list, tuple and dictionaries? Differentiate between lists, tuples and dictionaries. Give an example for their usage. | 10 |
| 5 | | Write the following python programs. a. Exchange the value of two variables b. Test whether a given year is leap year or not c. Check if given number is odd or even | 10 |

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