

**Vellore Institute Of Technology, Chennai**

B.Tech (5th Semester (2020-2021))

**CAT II Examination**

**Parallel Distribution System(CSE4001)**

Max Marks : 30

Time : 3 Hours

Note: There are three Questions in this paper . All Questions are compulsory.

*Max marks for all Question are 10*

**Attempt ALL Questions.**

**Question 1: Using shared memory programming model, write a program to generate the following series in the given range 1 to N. Series: 1,5,4,9,9,15,16,23,25,33,...Find sum of all numbers in the series once the series is generated**

**Question 2: Apply suitable decomposition technique for the problem given below and justify. Draw task dependency graphs. Comment on the maximum degree of concurrency and granularity.**

**Question 3: Find the algorithm for multiple readers-one writer protocol. Explain and sketch the algorithm for implementing this distributed shared memory. Also, suggest a suitable way to improve the performance of this algorithm.**