Sender frequency = 80 MHz

Receiver frequency = 50 MHz

Write Idle Cycler : 0

Rind Idle Cooler = 0

Write Barrt size = 120

No idle cycler in rendeng on waiting, there all the items in the boost will be worlden and rend in consecutive clock cycles.

Time required to write one item: 80MHz = 12.5.10 = 12.5 ns

Time regard to work all the data in the barst = 120.12.505 = [1500ns]

Time regard to real one data iten: 1 = 20.109 = 2005

Thur, even 2000 the receive realt one data in the burst

- In a period of 1500 as, 120 data item can be wither

Number of data items that can be read in the time it taken to write all the data in the burst.

$$=\left(\frac{1500ns}{20ns}\right)=\boxed{75}$$

Remaining number of bytor stoned in the FIFO = 120-75 = 45

Minimum FIFO depth = 45