Gate Question

January 9, 2024

1. A $10\frac{1}{2}$ digit Counter-timer is set in the 'frequency mode' of operation (with $T_s = 1s$). For a specific input, the reading obtained is 1000. Without disconnecting this input, the Counter-timer is changed to operate in the 'Period mode' and the range selected is microseconds (μs, with $f_s = 1\,\text{MHz}$). The Counter Will then display

   (a) 0

   (b) 10

   (c) 100

   (d) 1000