

## Gate : IN-2021,32

January 10, 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 ( $\mu s$ , with  $f_s = 1 \text{ MHz}$ ). The Counter Will then display (GATE-IN2021)
  - (a) 0
  - (b) 10
  - (c) 100
  - (d) 1000