

GATE ME 30

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Question GATE ME 30 :

The figure shows a block of mass $m = 20$ kg attached to a pair of identical linear springs, each having a spring constant $k = 1000$ N/m. The block oscillates on a frictionless horizontal surface. Assuming free vibrations, the time taken by the block to complete ten oscillations is _____ seconds . (Rounded off to two decimal places) Take $\pi = 3.14$.



Fig. 0. Diagram for GATE ME Question 30