

Tuning Test Item Bank

Mechanical Engineering

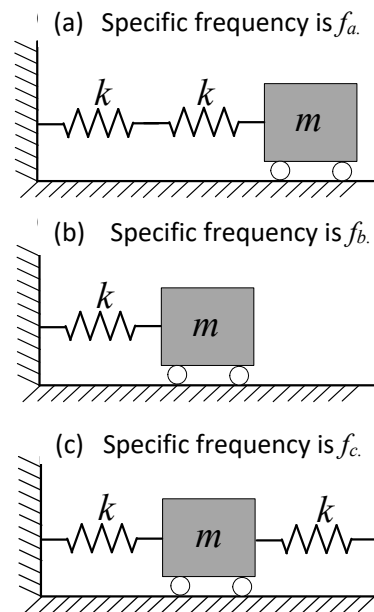
The figure below shows the motion of carts in three kinds of vibration systems (a), (b), and (c). The mass of the cart is m and the spring constant is k . Select one correct expression from the following that describes the relationship of natural frequencies in their respective vibration systems.

A $f_a = f_b = f_c$

B $f_a = f_c, f_b < f_c$

C $f_a = f_c, f_b > f_c$

D $f_a < f_b < f_c$



(Motion 14.1)

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Correct Answer D.