

# GATE AE-62 (2022)

EE:1205 (*SignalsSystems*)

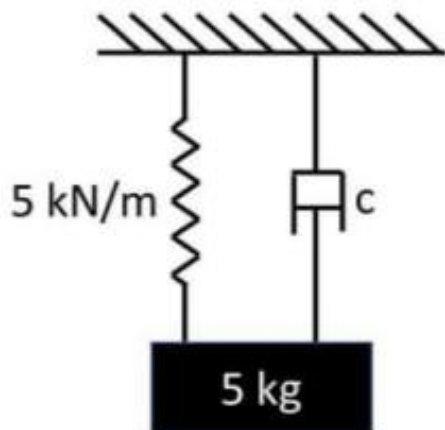
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EE23BTECH11041

## *Question*

A damper with damping coefficient,  $c$ , is attached to a mass of 5 kg and spring of stiffness 5 kN/m as shown in figure. The system undergoes under-damped oscillations. If the ratio of the 3<sup>rd</sup> amplitude to the 4<sup>th</sup> amplitude of oscillations is 1.5, the value of  $c$  is ?



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