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12. a) Describe Vibration Absorber.

(OR)

b) i) Write the Lagrangian for the given figure.

(8)

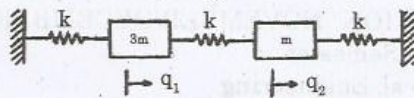


Fig. 12. b) i)

ii) Derivation of equation for a two degree system.

(8)

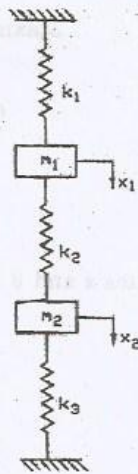


Fig. 12. b) ii)

13. a) Explain 'torsional vibration'.

(OR)

b) Determine natural frequency of a bar of uniform section fixed at one end and free at the other end.

14. a) Find the fundamental natural frequency of transverse vibration using Dunkerley's method.

(OR)

b) Find the lower natural frequency of vibration by Rayleigh's method.

15. a) Describe 'Wing Divergence'.

(OR)

b) Explain 'Aileron Control Reversal'.