

Assignment : 4 Introduction to Mechanical Vibrations

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| 1. | Define: “Degrees of Freedom” (D.O.F). |
| 2. | Write down detail Classification of vibrations. |
| 3. | Define: (1) Time Period (2) Stiffness of Spring (3) Damped Vibration (4) Equivalent Damper in series. |
| 4. | If two springs of stiffness K_1 and K_2 are connected in series and mass m is attached to it. Find its natural frequency of the longitudinal vibration. |
| 5. | Define: resonance |