

DEPARTMENT: MECHANICAL SEMESTER: 5
SUBJECT NAME: Dynamics of Machinery

SUBJECT CODE: 3151911

FACULTY NAME: ASST.PROF.JIGNESH PATEL

Assignment: 4 Introduction to Mechanical Vibrations

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 K1 and K2 are connected in series and mass m is attached to it. Find its
	natural
	frequency of the longitudinal vibration.
5.	Define: resonance

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