MODEL QUESTION PAPER

MFM1 - P

I Semester M.TECH Examination, August 2011
MACHINE VIBRATION ANALYSIS

Time: 01 Hours   Max.Marks: 25

Q.1   What is S. H. M. and derive the general expression for finding the frequency of a S. H. M?

Q.2   Describe maximum shear stress theory and maximum strain theory.

Q.3   How to find the natural frequency for multirotor system.

Q.4   A 2 degree of freedom system is excited by a periodic force F = asin wt + bsin3wt. Sketch the frequency response curve.

Q.5   Write short note on
        (a) Vibration isolation.
        (b) Demerits of dynamic vibration absorber.

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