

**RO 8403 Kinematics and Dynamics of Machines**

**Important 2mark questions**

**Unit I**

1. Why inversion of higher pair links is not possible?
2. What do you mean by kinematic inversions?
3. Define face and flank with respect to cams.

**Unit II**

1. Define law of gearing.
2. What is crowning in gears?
3. Why involute tooth profile is preferred for gears in industries?

**Unit III**

1. Define the condition for the constant wear losses power transmission give example where constant wear is consider for design of systems.
2. Define tractive resistance.
3. Why do we use square threads in screw jacks?

**Unit IV**

1. Define the condition for dynamic equivalent two mass system.
2. What are free-body diagrams?
3. State the main difference between the static and dynamic force analysis.

**Unit V**

1. What is the purpose of modal analysis in vibration?
2. Define the term frequency ratio and also indicate how it induces resonance in vibrating system.
3. Why balancing of rotating parts is more important in high speed machines?