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**17/ENG06/004**

**MECHANICAL ENGINEERING**

**MEE 312**

## **ASSIGNMENT 2**

**QUESTION1: Explain two types of friction; dry friction and fluid friction and give practical examples**

**Fluid Friction:** This term is used to describe the friction that exists between the layers of a viscous fluid that are moving relative to each other.

**Example:** A practical example is the viscosity in honey. Another one is the concept of terminal velocity while falling through atmosphere or through liquids.

**QUESTION 2: Explain the following types of machines**

**Journal Bearings:** In a journal bearing, the shaft rotates inside a loose-fitting shell of softer, often porous, bearing material.

**Wedges:** A wedge is described as a triangular shaped tool, and is a portable inclined plane, and one of the six classical simple machines.

**Square-Threaded Screws:** The square thread form is a common screw thread form, used in high load applications such as screwjacks and lead screws. It gets its name from the square cross-section of the thread. It is the lowest friction and most efficient thread form, but it is difficult to fabricate.