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**MECHANICAL ENGR**

**MEE 312**

**QUESTION 1**

**Dry Friction:** This is the force that opposes one solid surface sliding across another.

Eg. Antifriction bearings, which have to operate without a liquid lubricant will experience high wear and friction.

**Fluid Friction:** This is the force that resists motion either within the fluid itself or of another medium moving through the fluid.

Eg. You find lighter dust particles move fast on the surface of a flowing river. This is due to the high velocity gradient at the top layer of water due to lower dynamic fluid gradient at the layer.

**QUESTION 2**

**Wedges:** It is a triangular shaped tool and is a portable inclined plane and one of the six classical simple machines.

**Square Thread Screws:** These screws are known for their square cross section and are used in high load applications.

**Journal Bearings:** This is the simplest type of bearing comprising just a bearing surface and no rolling elements.