EFEBO PAGATE PRINCESS

17/ENG06/027

MECHANICAL ENGINEERING

MEE 312 ASSIGNMENT 2

Question 1

Dry friction - This is the force that opposes one solid surface sliding across another solid surface. It can be broken down into static and kinetic friction. Eg when a sled slides down a smooth ice surface which causes less friction to the sled and ice surface.

Fluid friction – Fluid friction is where the friction between layers within a liquid that’s moving relative to each other. Fluid friction can act on water and gas. Eg when a person swims, their skin and the water rubs together and it makes it difficult for the swimmer to move in water.

Question 2

1.Wedges- A wedge is an inclined plane turned on its side, it helps you move things to a higher level and helps you push things apart. It is one of the six simple machines.

2. Square-Threaded Screws – Square-threaded screws can be used to transmit power in either direction, they have maximum efficiency and there is no radial or bursting pressure on the nut, increasing the life of the nut and making its motion uniform.

3. Journal Bearings – Journal bearing holds the radical position of the rotor in rotating machinery, transmitting the weight and radical forces from the rotor to the stationary structure.