VISCOSITY

This is defined as the resistance to the movement of one layer of fluid over another adjacent layer separated by a distance.

NEWTON’W LAW OF VISCOSITY

It states that the shear stress between two adjacent layers of fluids is directly proportional to the rate of shear strain.

is in . It is called **Dynamic Viscosity**.

KINEMATIC VISCOSITY

. Its unit is

QUESTIONS

1. If the velocity distribution over a plate is given by . Where u is the velocity in m/s at a distance y meteers above the plate. Determine the shear stress at y=0m and y=0.15m. Take dynamic viscosity of fluid to be equal to 8.63 poise

Note:

at y=0,

at y=0.15