**BBDNITM**

**MECHANICAL DEPARTMENT**

**SESSION(2018-19)**

**Subject- Fluid Mechanics [ RCE-303]**

**Assignment no. 5**

1. Explain boundary layer concept & wall shear?
2. Explain laminar boundary layer ,turbulent boundary layer and laminar sub layer with sketch in case of flow over plate?
3. What do you understand by momentum thickness & displacement thickness?
4. Define energy thickness and derive its expression?
5. Derive momentum integral equation for boundary layer?
6. Explain the phenomenon of separation of boundary layer?
7. Explain the pressure gradient on boundary layer separation?
8. Give the expression for drag and lift?