Assignment: 3 MOTION OF FLUID PARTICLES AND STREAMS

1. Derive continuity equation in 3 dimensional coordinate system.
2. Explain briefly:

Steady and unsteady flow, uniform and non-uniform flow and Laminar and turbulent flow.

3. Distinguish between forced vortex and free vortex flow.
4. Explain flow-net and state the importance of flow net.
5. Distinguish between rotational and irrotational flow.
6. Define circulation and prove its equation.
7. Explain the term vorticity.