Programme: B. Tech

Course Name: Environmental Engineering - I

Course Code: ECE 358

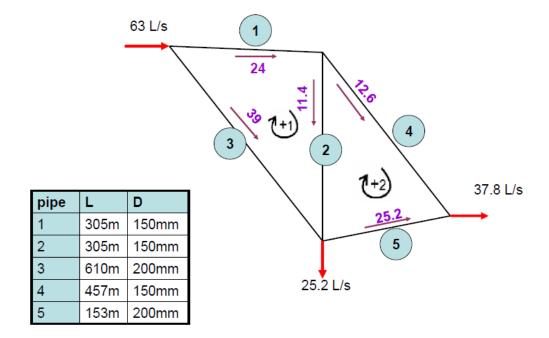
Tutorial – 5

Topics Covered – Unit 4 (CO4)

Tutorial -5

Assume suitable data wherever necessary

- 1. Explain in your own words the methodology for assessment of water distribution system using (a) Hardy-Cross Method and (b) Newton- Raphson method (c) comparison of the above methods
- 2. The hardy-Cross method can be assessed using both (a) Hazen-William Condition and (b) Darcy Weisbach condition. Explain the suitability of both in assessment of WDS.
- 3. With a neat sketch, explain the functioning of (a) centrifugal pumps and (b) Reciprocating pumps
- 4. Solve the following pump network using Darcy- Weisbach condition



5. Solve the following pump network using Hardy-Cross method (minimum 2 iterations)

