

Cheenta - Filix Math Olympiad Program

Starter Module

Day 3 - Homework problems

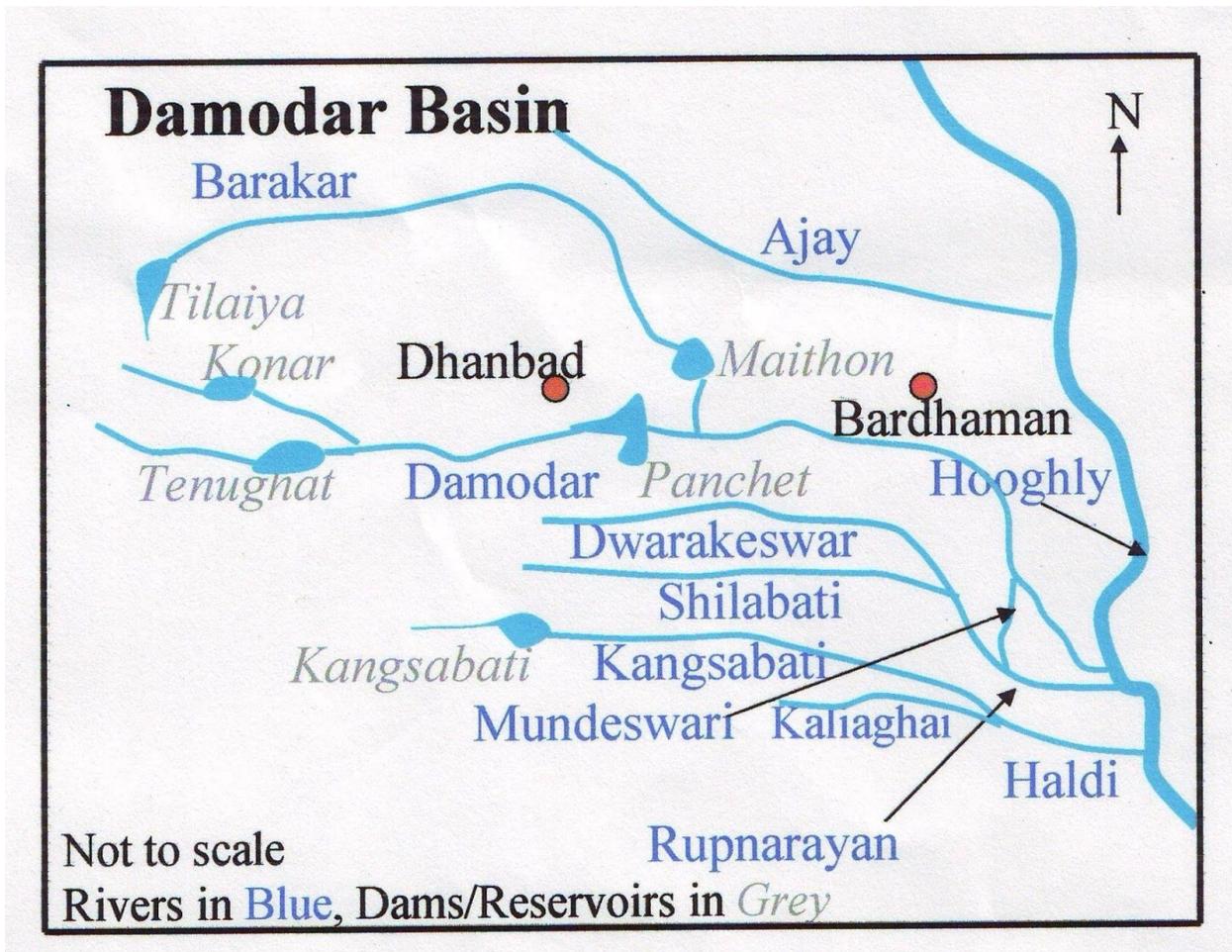
(Try these before coming to **next** class)

Problem 1

What is the Euler number for a solid? Draw three different solids to illustrate it.

Problem 2

This is the picture of Damodar Basin. Can you model it as a graph (just like Euler did for Konigsberg)? Use vertices for regions (for example Bardhaman can be one region). Find out more about bridges in the Damodar Basin from internet and use edges for bridges.



Problem 3

Find an Eulerian path in the graph for Damodar basin where vertices are the regions and edges are the bridges.