

MSLIS Semester 4
MIDTERM TEST
Paper: Geographical Information Science
23 February 2024
(10.00 AM - 11.30 AM)

Q1. Explain the Digital Elevation Model (DEM) and application of Morphological Skeletonization to extract valley connectivity network from the DEM. **[10 Marks]**

Q2. Elevation contours and the valley connectivity networks are two critical topological phenomena conspicuous from DEMs. Using these phenomena, explain hypsometric and morphometric analyses. **[15 Marks]**

Q3. Explain morphological granulometries of watershed-DEM in deriving the spectrum of roughness values. **[15 Marks]**