

MSLIS Semester 4
MIDTERM TEST
Paper 21: Geographical Information Systems
27 February 2020
(11.30AM - 1.30PM)

Q1. Write briefly about the following:

[12 marks]

- (a) Digital Elevation Model (DEM)
- (b) Geographical Information Science (GISci)
- (c) Important ingredients of Spatial Data Science
- (d) Role of spatial scale in spatial and temporal models

Q2. Explain roughness estimation from DEM via grayscale granulometric analysis with illustrations and equations.

[14 marks]

Q3. Explain how morphological skeletonization transformation is useful in retrieval of two unique topological networks that are hidden in a DEM.

[14 marks]