MSLIS Semester 4 MIDTERM TEST

Paper 21: Geographical Information Science 09 March 2022

(15.30 - 17.00)

- Q1. What is scale? Write briefly about the impact of scale of the map on the characterization? [10 Marks]
- Q2. Fractal Dimension is a measure to quantify the spatial complexity of features. Explain the following: [15 Marks]
 - (i) Koch curves and the computation of their fractal dimensions
 - (ii) Box Counting Method
 - (iii)Computation of fractal dimension for branched networks
- Q3. Topographic maps and Digital Elevation Models provide numerous ways to characterize the complexity. Explain how the following methods can be used in understanding surficial complexity. [15 Marks]
 - (i) Hypsometric integral
 - (ii) Grayscale granulometries.