

MSLIS Semester 4  
MIDTERM TEST  
Paper: Geographical Information Science  
20 February 2025  
(10.00 AM - 11.30 AM)

**Q1.** Provide your understanding of the spatial, spectral, and temporal scales within the context of Geographical Information Science (GISci). **[16 Marks]**

**Q2.** Given the data of various variables of relevance to socioeconomics in spatial and/or temporal form, explain how the following advanced spatial statistical techniques could be employed to write spatial social policies: **[24 Marks]**

- i) Moran's Index
- ii) Mahalanobis Distance
- iii) Fractal Dimension and  $f$ - $\alpha$  spectra