**Assignment # 1**

**Deadline- 15 April 2023**

1. Explain the functions of a GIS. Describe the three main ways of acquiring spatial data for input into a GIS.
2. Describe different type of projection system used in GIS mapping. Explain the different methods of vector overlay operations with illustrations.
3. Differentiate between raster and vector data models. Explain the different methods of image overlay operations with illustrations.

1. What are the different steps in remote sensing? Describe with illustrations. Differentiate between active and passive sensor?