1. Define GIS. Describe the role of GIS in a mountainous country like Nepal. Support your answer with a reference of an application. [2+8]

2. What are various coordinate system used in GIS application? Describe them in brief. [2+8]

3. What are raster and vector data? Differentiate between their properties with advantages and disadvantages. [2+8]

4. What are various sources of GIS data? Describe methods of data capture. [2+8]

5. What do you mean by spatial analysis? How do you perform the raster overlay operation using relational operators? Explain with example. [2+8]


7. Explain how does a clearing house works? What problems do you face during the spatial data sharing? [5+5]

8. Write short note on (any two) [5+5]
   (a) DTM
   (b) Remote Sensing Data
   (c) Open GIS
   (d) Layer