

Coordinate System and Map Projection

Solve any 5 questions. Each question bears 5 marks totaling 50 marks. This will contribute to your final assessment proportioned to 10 marks.

1. Introduce the two coordinate systems used in GIS. Even though Geographic Coordinate System is efficient in uniquely identifying locations, we still need Projected Coordinate System. Why is this the case?
2. What is map projection? Why do we need it? Briefly explain the types of map projections.
3. Mercator is one of the most widely used map projection. Why did it become so popular? What are its disadvantages?
4. Which map projection does Google Maps use? Which map projection is used in the logo of United Nations? Discuss each of these briefly.
5. What is the map projection used by Nepal for topographic mapping? Discuss briefly.
6. Lambert Conformal Conic and Albers Equal Area Conic Projection are debated as the best projections for Nepal. Discuss each of these projections briefly. Which projection would you recommend and why?