

Principles of Geographic Information Systems

Q.3 a.

Write a note on:

i. Local horizontal datum

A local horizontal datum is a reference system used for geodetic measurements that is best suited for a particular country or region. It originates from a point on the Earth's surface within or near the area of interest. Local datums are designed to provide the best fit to the geoid in that specific region, minimizing errors in horizontal measurements within that area. However, they are not geocentric, meaning their origin is not at the Earth's center of mass. This can lead to significant discrepancies when comparing coordinates across different local datums or with global datums. Historically, many countries established their own local datums to suit their surveying and mapping needs before global systems became prevalent.

ii. Global horizontal datum

A global horizontal datum is a geocentric reference system, meaning its origin is at the Earth's center of mass. These datums, like WGS 84 (World Geodetic System 1984), are designed to provide a consistent and uniform reference frame for geodetic measurements across the entire Earth. Global datums are crucial for applications requiring worldwide consistency, such as satellite navigation (like GPS), global mapping, and international collaborations in geosciences. While global datums provide a consistent framework, they may not perfectly align with the local geoid in every region, potentially leading to slightly larger errors in horizontal measurements compared to a well-fitted local datum within its specific area of validity.

b. Explain 2D geographic coordinate system using a suitable example

A 2D geographic coordinate system is a spherical coordinate system used to locate positions on the Earth's surface using two angles: latitude and longitude.

- **Latitude:** Measures the angular distance North or South of the Equator, ranging from 0° at the Equator to 90° North or South at the poles. Lines of constant latitude are called parallels. For example, Mumbai, India is located at approximately 19° North latitude.
- **Longitude:** Measures the angular distance East or West of the Prime Meridian (which passes through Greenwich, England), ranging from 0° at the Prime Meridian to 180° East or West. Lines of constant longitude are called meridians. For example, Mumbai, India is located at approximately 72.8° East longitude.

Example: The geographic coordinates of Mumbai, Maharashtra, India are approximately 19.0760° N, 72.8777° E. These two values uniquely define Mumbai's location on the Earth's surface in a 2D geographic coordinate system. It's a 2D system because it defines location on a curved surface (Earth approximated as a sphere or ellipsoid) using two angular measurements.

f. Explain the reference surface for mapping the Earth's Surface.

The Earth's surface is a complex, irregular shape. For mapping purposes, we need to

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