



4.7 FURTHER READINGS

- 1) Basudeb Bhatta, *Remote Sensing and GIS*, published by Oxford University press, 2008.
- 2) Kang-Tsung Chang, *Introduction to Geographic Information System*, Published by McGraw-Hill, 2002.
- 3) Masood A. Siddiqui, Concepts and Techniques of Geoinformatics, published by Sharda Pustak Bhawan, Allahabad, 2017
- 4) Paul A. Longley, Michael F. Goodchild, David J. Maguire, David W. Rhind, *Geographic Information Systems and Science*, Published by Wiley, 2010.



4.8 ANSWERS TO CHECK YOUR PROGRESS

Q. No. 1: 21 km

Q. No. 2: Ellipsoid- Geoid

Q. No. 3:

An ellipsoid is a 3- dimensional geometric figure that resemble a sphere, but whose equatorial axis is slightly longer than its polar axis.

Q. No. 4:

A 'curved- earth' reference model of the world is known as a geodetic datum. It is a simplified representation of the size and shape of the earth and acts as the origin and orientation of the coordinate systems used to map the earth.

Q. No. 5: NAD27 and WGS72

Q. No. 6:

A coordinate system is a reference system used to represent the locations of geographic features, imagery, and observations, such as Global Positioning System (GPS) locations, within a common geographic framework.