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(Chapter 2 Test Bank Questions)

Multiple Choice:

- 1. A datum represents
 - a. a reference surface used in computing coordinates.
 - b. a zero point from which to calculate elevations.
 - c. the origin point for longitude measurements.
 - d. the curvature of the Earth, used in computing latitude and longitude.
- 2. A model of the Earth based on mean sea level is
 - a. geoid.
 - b. spheroid.
 - c. ellipsoid.
 - d. a great circle.
- 3. Where is the WGS84 datum used for measurements?
 - a. The whole world, except for the north and south poles
 - b. Only the entire northern hemisphere
 - c. At all points across the world
 - d. Only in North America
- 4. One minute of latitude is equivalent to
 - a. 60 degrees of latitude.
 - b. 1 degree of longitude.
 - c. 60 seconds of latitude.
 - d. 60 meters.
- 5. The origin point for 0 degrees longitude is
 - a. Greenwich, England.
 - b. Washington, D.C., USA.
 - c. Paris, France.
 - d. San Salvador Island, the Bahamas.
- 6. The 180th meridian refers to the
 - a. compass rose line.
 - b. equator.

- c. prime meridian.
- d. international date line.
- 7. The shortest distance between two points on a sphere is the
 - a. great-circle distance.
 - b. longitude distance.
 - c. equatorial distance.
 - d. datum distance.
- 8. If it is 10pm Sunday night in London, England, what day and time is it in New York City, New York?
 - a. 3am Sunday
 - b. 5pm Sunday
 - c. 3am Monday
 - d. 10pm Monday
- 9. A map projection is a
 - a. translation of locations on the Earth's surface to their corresponding locations on a flat surface.
 - b. model of the Earth in regards to size and shape of objects on the Earth's surface.
 - c. representation of how time zones are distributed with respect to geographic boundaries.
 - d. system used in translating decimal degrees to other forms of measurement.
- 10. Each UTM zone covers how many degrees of longitude wide?
 - a. 3
 - b. 6
 - c. 15
 - d. 30
- 11. UTM coordinates are measured in
 - a. degrees, minutes, and seconds.
 - b. miles.
 - c. meters.
 - d. feet.
- 12. What is used to ensure that UTM measurements of the southern hemisphere have a positive value?
 - a. A false northing value
 - b. A false easting value
 - c. A false southing value
 - d. A false polar value

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- 13. Each UTM zone uses a false easting value of
 - a. 50 miles.
 - b. 500,000 m.
 - c. 10,000,000 ft.
 - d. 15 degrees of longitude.
- 14. How are SPCS zones determined?
 - a. By every 3 degrees of longitude and every 3 degrees of latitude indicating a new zone
 - b. By every 2,000,000 feet beginning a new zone
 - c. By the geographic boundaries of states and counties
 - d. By using the states' outlines for the boundaries, then cutting each state exactly in half