Test Bank for Introduction to Geospatial Technologies 3rd Edition by Shellito IBSN 9781464188725

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Chapter 2

Where in the Geospatial World Are You?

The companies to the town
 Geospatial technology rarely links geospatial data to nonspatial data. True False
 2. For geospatial technology to work, every location on Earth must be: a. inhabited by both humans and vegetation. *b. identified and measured. c. mapped and named. d. imposed on a gridlike system.
3. A reference surface or model of Earth, used for plotting locations across the globe, is called a(n):a. geoid.b. ellipsoid.*c. datum.d. model.
4. Earth is perfectly round. a. True *b. False
5. Geodesy is the science of measuring Earth's: a. gravitational pull. b. weight. c. size. *d. shape.
6. One datum is used for all measurements of Earth's locations.a. True*b. False
7. Which of the following is NOT a commonly used datum? *a. DAT86 b. WGS84 c. NAD83 d. NAD27

- 8. Which datum is used by the Global Positioning System?
- a. WGS04
- *b. WGS84
- c. NAD83
- d. NAD27
- 9. Measurements made from one datum may not precisely match the measurements made from another datum.
- *a. True

b. False
10. Lines of latitude run in an east-to-west direction around the globe.*a. Trueb. False
11. The key reference point for lines of latitude is the:a. International Date Line.b. Greenwich Mean.c. Prime Meridian.*d. Equator.
12. Lines of longitude are also known as parallels. a. True *b. False
13. The key reference point for lines of longitude is the:a. International Date Line.b. Tropic of Cancer.*c. Prime Meridian.d. Equator.
14. The Equator and the Prime Meridian both have a value of in geographic coordinate systems. *a. zero b. 30 c. 90 d. 180
15. Lines of longitude are closer together at the poles and farthest apart at the Equator. *a. True b. False
16. In general, GCS measurements are made in:a. feet.b. miles.*c. DMS.d. meters.
17. A degree is composed of minutes, and a minute is composed of seconds. a. 10; 30 b. 40; 90 *c. 60; 60 d. 90; 180
18. Negative values can be used when making measurements of the Equator and/or of the Prime Meridian. *a. south; west

c. north; south d. west; north
19. When making measurements on a sphere, the distance between two points is referred to as the:a. prime distance.b. equatorial distance.*c. great circle distance.d. circumference.
20. Every time zone is (in theory) degrees wide. a. 5 b. 10 *c. 15 d. 20
21. If it is 1:00 pm in Greenwich, England, what time is it in Madagascar (3 time zones to the East)? a. 10:00 am b. 11:00 am *c. 4:00 pm d. 3:00 pm
22. Time zones strictly follow lines of longitude, regardless of the country's size or location.a. True*b. False
23. The only representation of the world that could accurately capture all its features is a globe.*a. Trueb. False
24. All flat maps of the world have some distortion built into them. *a. True b. False
25. In a Mercator projection, remain intact but can be grossly distorted. a. positions; lines of latitude *b. shapes; sizes c. measurements; the Equator d. time zones; shapes
26. A map's distortion is minimized at: *a. the point of tangency. b. the Equator. c. the Prime Meridian. d. the International Date Line.
27. Which of the following is NOT one of the three main "developable surfaces" used in creating world

b. east; north

maps?

a. azimuthal b. conical c. cylindrical *d. rhomboid
28. Which type of projection is commonly used to create maps of the United States and other east-west trending areas? a. Transverse Mercator b. UTM c. Azimuthal *d. Lambert Conformal Conic
29. A Transverse Mercator projection is more likely to be used for north-south trending areas than for east-west trending areas. *a. True b. False
30. The UTM is used for mapping Earth's polar zones. a. True *b. False
31. The Universal Transverse Mercator grid system divides the world into zones. a. 12 b. 24 c. 50 *d. 60
32. The unit of measurement used by the UTM system is: *a. meters. b. feet. c. degrees, minutes, and seconds. d. miles.
33. The false northing value of is used in UTM to avoid negative values in the Southern Hemisphere. a. 10 miles. b. 1,000 nautical miles. c. 10,000 meters. *d. 10,000,000 meters.
34. In the UTM system, each UTM zone has its own central meridian. *a. True b. False
35. The maximum size of a zone in the UTM system is 10 million meters. a. True *b. False

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- 36. SPCS is a coordinate system used for the data of which region?
- a. Europe
- *b. the United States
- c. China
- d. the Russian Federation
- 37. SPCS zones are formed by following state or county boundaries.
- *a. True
- b. False
- 38. SPCS uses DMS for its measurements.
- a. True
- *b. False
- 39. Which U.S. state is composed of more than one SPCS zone?
- a. New Jersey
- b. Montana
- *c. Texas
- d. Delaware
- 40. A false easting is a measurement made east or west of an imaginary meridian set up for a particular zone in the UTM system.
- *a. True
- b. False