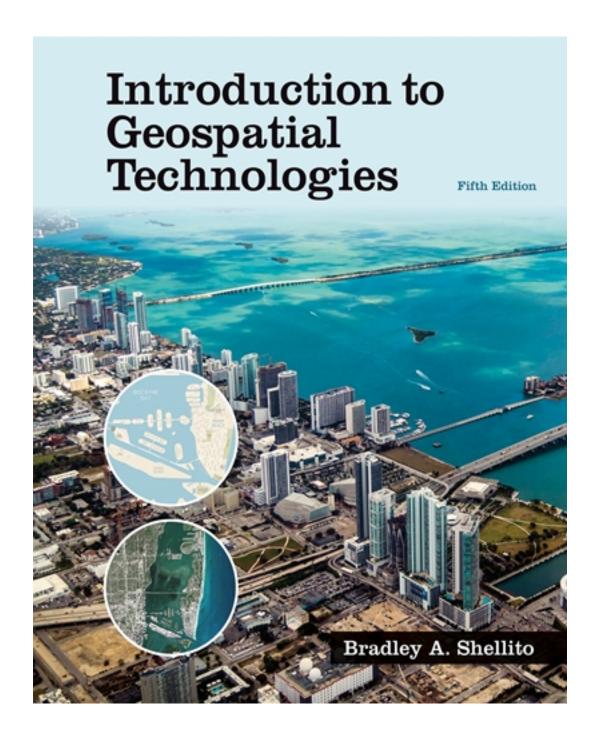
Test Bank for Introduction to Geospatial Technologies 5th Edition by Shellito

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Test Bank

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Chapter 2	
1. A datum representsa. a reference surface used in computing coordinatesb. a zero point from which to calculate elevations	
c. the curvature of the Earth used in computing latitude and longitude	
d. the origin point for longitude measurements ANSWER: a	
 A model of the Earth based on mean sea level is a(n) a. geoid 	
b. great circle	
c. ellipsoid d. spheroid	
ANSWER: a	
 3. Geodesy is the science of a. analyzing the Earth's landscape features b. analyzing the Earth's minerals and composition c. establishing individual coordinate systems for the Earth d. measuring the Earth's shape 	
ANSWER: d	
 4. Where can the WGS84 datum be used for measurements? a. at all points across the world b. only in North America c. only the entire northern hemisphere 	
d. the whole world except for the North and South Poles <i>ANSWER:</i> a	
 5. Latitude and longitude are used as the measurement system for which of these? a. GCS b. SPCS c. USNG 	
d. UTM ANSWER: a	
6. To improve spatial reference and coordinate measurements, what is the National Geodetic Su to roll out in 2022?	ırvey preparing
a. a new national datum to replace NAD83	
b. a new national datum to replace WGS84	
c. a new national geoid to replace NAD27 d. a new national geoid to replace NAD83	

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ANSWER: a
7. A dataset of roads and a dataset of parcel boundaries of the same area do not line up. What is the most likely reason for this offset?
a. One dataset was crowdsourced and the other was not.
b. One dataset is a KML file and the other is a KMZ file.
c. The datasets are based on two different datums.
d. The datasets are used by different industries.
ANSWER: c
8. One minute of latitude is equivalent to
a. 1 degree of longitude
b. 60 degrees of latitude
c. 60 meters
d. 60 seconds of latitude
ANSWER: d
9. The origin point for 0 degrees longitude is
a. Greenwich, England
b. Paris, France
c. San Salvador Island, the Bahamas
d. Washington, D.C., United States
ANSWER: a
10. Which of these is equal to 2.5 decimal degrees of latitude?
a. 2 degrees, 5 minutes, 0 seconds of latitude
b. 2 degrees, 30 minutes, 0 seconds of latitude
c. 2 minutes, 5 seconds of latitude
d. 250 minutes, 0 seconds of latitude
ANSWER: b
11. What marks the difference between north and south latitude?
a. compass rose line
b. equator
c. international date line
d. prime meridian
ANSWER: b
12. What marks the change between east and west longitude? a. antimeridian

b. equator

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c. international date line		
d. prime meridian		
ANSWER: d		
13. The shortest distance between tw	yo points on a sphere is the	distance.
a. datum	•	
b. equatorial		
c. great circle		
d. equatorial		
ANSWER: c		
14. If it is 11 p.m. Sunday night in L a. 4 a.m. Sunday	ondon, England, what day and time is it	in New York City, New York?
b. 6 p.m. Sunday		
c. 4 a.m. Monday		
d. 6 p.m. Monday		
ANSWER: b		
b. representation of how time zoc. system used in translating dec	he size and shape of objects on the Earth'ones are distributed with respect to geogratimal degrees to other forms of measurem Earth's surface to their corresponding lo	aphic boundaries nent
16. What is an unavoidable conseque a. classification	ence of translating a 3D object to a 2D su	urface'?
b. distortion		
c. generalization		
d. selection		
ANSWER: b		
17. The Mercator projection should	not be used to	
a. compare global population de		
b. follow a line of constant comp		
c. map a route from Madagascar	to Australia	
d. navigate the Atlantic Ocean for	rom Cuba to Senegal	
ANSWER: a		
18. What is the only accurate represe a. a cylindrical surface	entation of the world?	

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b. a globe		
c. a projection		
d. a rectangular grid system		
ANSWER: b		
19. Which of these map projections is bes	st suited for east-west trending ar	eas like the continental United
a. Azimuthal Equidistant projection		
b. Lambert Conformal Conic projecti	on	
c. Mercator projection		
d. Transverse Mercator projection		
ANSWER: b		
20. What does the location of the line or la. where all measurements are accurate b. where all properties are preserved	- ·	map projection?
c. where distortion is at its least		
d. where great circle routes can be ca	lculated	
ANSWER: c		
21. Which of these map projections is besa. Azimuthal Equidistant projection	st suited for north–south trending	areas like South America?
b. Lambert Conformal Conic projecti	on	
c. Mercator projection		
d. Transverse Mercator projection		
ANSWER: b		
22. What is the extent of the UTM grid sy a. 80° N to 90° S	ystem?	
b. 84° N to 80° S		
c. 84° N to 84° S		
d. 90° N to 90° S		
ANSWER: b		
23. What unit of measure does the UTM	system use?	
a. decimal degrees		
b. degrees		

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c. feet d. meters

ANSWER: d

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24. How are negative values avoided in a. by measuring from a false easting b. by measuring from a false north c. by measuring from one standard d. by measuring from two standard	ng ing I parallel	sures south of the Equator?
ANSWER: b		
25. What is the value given to each UT a. 500,000 feet b. 500,000 meters c. 10,000,000 feet d. 10,000,000 meters ANSWER: b	'M zone's central meridian?	
26. The UTM coordinates of Enchante 3374884.58 N, Zone 14R. How far is i a. 17,266.07 meters east b. 17,266.07 meters west c. 2,374,884.58 meters east d. 2,374,884.58 meters west		cksburg, Texas, are 517266.07 E,
ANSWER: a		
27. What pieces of information are req that apply.a. the eastingb. the northingc. the projectiond. the zone	uired to locate a position using the U	TM and SPCS systems? Select all
ANSWER: a		
28. The UTM system is the basis for the a. Federal Emergency Managemer b. Geographic Coordinate System c. Military Grid Reference System d. State Plane Coordinate System ANSWER: c	nt Axes Grid	is also known as the

29. Explain why a zone designation is required to locate a position using the UTM system.

ANSWER: The UTM system is divided into sixty zones that are each 6 degrees of longitude wide. Without a zone designation the position could be in any one of the UTM system's sixty zones. Each zone begins a new coordinate system with a new origin. Within each zone, the coordinates are measured east and north of that new origin. Thus, each set of coordinates could define a point in sixty different

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zones.		
30. What projections does the SPCS use. Azimuthal Equidistant projection b. Lambert Conformal Conic projection c. Mercator projection d. Transverse Mercator projection <i>ANSWER</i> : b, d	on ection	
31. What defines SPCS zones? Select a. county boundaries b. lines of latitude c. lines of longitude d. state boundaries ANSWER: a, d	all that apply.	
32. What unit of measure does the NA a. decimal degrees b. degrees c. feet d. meters ANSWER: c	AD27 version of the SPCS use?	
33. Why is it important to determine values in the control of the	ons used for each zone. For each zone's origin.	n of SPCS is used to map an area?
34. The SPCS is used only for data from a. European Union b. polar regions c. United Kingdom d. United States ANSWER: d	om the	
		tly in some states?

c. Some states are oriented north-south and others oriented east-west.

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d. Some states have extensive ocean coastlines.		

ANSWER: c