# Test Bank Chapter 2: Representations of Earth

# **Multiple Choice**

1.	A rhumb line on a Mercator projection is a line of  a. true size  b. true shape c. true compass bearing d. true location
2.	Maximum longitude from the prime meridian is  a. 180° N and 180° S  b. 90° E and 90° W  c. 90° N and 90° S  d. 180° E and 180° W
3.	Computer-assisted mapping  a. is problematic in terms of making revisions  b. is used primarily by research scientists  c. can collect data almost instantaneously  d. must be verified by field surveys
4.	The world's time zones were established based on the relationship among: a. latitude, Earth's rotation, and time b. longitude, Earth's rotation, and time c. latitude, Earth's revolution, and time d. longitude, Earth's revolution, and time
5.	The computer-based technology that represents a "marriage" between computer cartography and database management is  a. spatial analysis  b. the geographic information system (GIS)  c. spectral analysis  d. the multispectral scanner
6.	A map capable of showing true direction is called a(n)  a. focal map  b. planar map c. Mercator map d. azimuthal map

7.	A key factor in digital images is spatial resolution, expressed as how much area each represents.
	<ul><li>a. degree</li><li>b. byte</li><li>c. pixel</li><li>d. focal point</li></ul>
8.	The primary purpose of a map is:  a. spatial and locational communication  b. navigation  c. realistic depiction of Earth's -boundaries  d. data collection
9.	Maximum latitude is reached at the: a. prime meridian b. North and South Poles c. Tropics of Capricorn and Cancer d. equator
10.	Magnetic declination is:  a. the angular difference between magnetic north and the Arctic Circle  b. the angular difference between magnetic north and true geographic north  c. the angular difference between magnetic north and the prime meridian  d. the angular difference between magnetic north and the equator
11.	The Mercator map is actually a(n) type of projection that has been mathematically derived.  a. conic b. cylindrical c. planar d. interrupted
12.	<ul> <li>A map with an RF scale</li> <li>a. will be inaccurate if the original map is enlarged</li> <li>b. uses graduated lines</li> <li>c. has a small denominator in its representative fraction</li> <li>d. is free of units of measurement</li> </ul>
13.	Maps of middle latitudes are typically based on what type of projection?  a. planar  b. conic  c. cylindrical  d. Mercator

14.	Contour maps				
	a. provide the reader with an idea of the lay of the land				
	b. are also referred to as "dot maps"				
	c. show distribution of any feature on Earth's surface				
	d. are used to show lines of equal temperature				
15.	A degree of latitude is subdivided into				
	a. centitudes and millitudes				
	b. hours, minutes, and seconds				
	c. minidegrees				
	d. minutes and seconds				
16.	Which type of scale is most likely to mix units?				
	a. representative fraction scale				
	b. verbal scale				
	c. graphic scale				
	d. bar scale				
17.	Near-infrared energy is				
	a. radiated heat energy				
	b. sound waves				
	c. red				
	d. light reflected off surfaces				
18.	In the Public Lands Survey System, one section equals				
	a. 36 square miles				
	b. 6 square kilometers				
	c. 640 acres				
	d. 120 hectares				
19.	Which of the following is an active remote sensing system that transmits pulses of energy				
	to measure distance?				
	a. near-infrared				
	b. lidar				
	c. aerial photography				
	d. thermal infrared				
20.	Lines of latitude are also called				
	a. arcs				
	b. parallels				
	c. meridians				
	d routes				

21.	Any circle on Earth that does not divide the planet into equal halves is called a(n)  a. phased circle b. small circle c. subcircle d. partial circle
22.	Contour lines on a topographic map connect  a. points that are the same elevation  b. points on the same road c. points that have the same vegetation cover d. points that have the same slope
23.	Weather radar systems are mainly designed to track and monitor  a. wind speed and directions on clear and stormy days  b. thunderstorms, hurricanes, or tornadoes  c. temperature patterns in the atmosphere  d. the patterns of the currents in Earth's oceans
24.	<ul> <li>Why are digital images generally used instead of photographs in satellite remote sensing?</li> <li>a. Digital images are protected from the possibility of sharing sensitive data.</li> <li>b. Digital images have a fixed resolution.</li> <li>c. Digital images are processed once, simultaneously as they are taken.</li> <li>d. Digital image data can be beamed back electronically from space, and can reproduce a wider part of the spectrum than photos can.</li> </ul>
25.	A great circle:  a. divides Earth into two planes of any size  b. is the dividing line between day and night  c. connects the Tropic of Cancer and the Tropic of Capricorn  d. divides Earth into two equal halves
26.	Persons traveling west across the International Date Line must  a. turn their calendar back one day b. turn their calendar ahead one day c. turn their watch 12 hours ahead d. turn their watch 12 hours back
27.	Three-dimensional views of elevation data are called a. visualization models b. GISs c. digital elevation models d. raised projections

28.	Mercator maps show a. polar region b. middle latitudes c. equatorial region d. oceans	the greatest amount of distortion in the	
29.	The time of day whe a. lunar shift b. solar noon c. Zulu time d. solar plexus	the sun reaches its highest position in the sky is called _	<u></u> .
30.	Which remote sensing currents and volcanional and an ear-infrared photo. Weather radar c. imaging radar d. thermal infrared and an ear-infrared an ear-infrared and an ear-infrared an ear-infrared and an ear-infrared an ear	ography	ll as ocean
<u>Tru</u>	e-False		
1.	Longitude is measure	d in degrees east or west of the prime meridian.	
	True	False	
2.	Remote sensing is the environments.	collection of information and data about distant objects	or
	True	False	
3.	Verbal scales are app	icable even if a map is enlarged or reduced.	
	True	False	
4.	Photography is a type	of remote sensing.	
	True	False	
5.	Latitude determines	point's location north or south of the equator.	
	True	False	
6.	Thematic maps portr	y land surface and elevational information.	
	True	False	

7.	Of all the regions of the U.S., the landscapes of the West and Midwest have been affect the least by the Public Lands Survey System.				
	True	False			
8.	The Internationa	al Date Line generally follows the 180 <sup>th</sup> meridian.			
	True	False			
9.	Until about 125 shadows cast by	years ago, each town or area went by "local time" determined by the sun.			
	True	False			
10.	One characterist poles.	cic of a "great circle" is that it must pass through both the north and south			
	True	False			
11.	The Global Positioning System (GPS) uses a network of satellites to accurately determine one's location on Earth's surface.				
	True	False			
Fill-i	in-the-Blank				
1.	The	is the arbitrary starting point for longitude measurement.			
2.	The time difference between Chicago and Greenwich, England ishours (include plus or minus hours).				
3.	refers to the relationship between distances on Earth to distances on the map.				
4.	A key that explains symbols used on a map is called a(n)				
5.	Maps that maint	ain true shape of small areas are said to be			
6.	The angular diff	erence between true north and magnetic north is called			
7	The	system of direction is given in degrees of a circle with respect to			

	north and is used for military and naviga	ational purposes.
3.	The is used as the sta	arting point for measuring latitude.
€.	• •	defines a point east or west of a defines a point north or south of a base line.
10.	An aerial photograph taken at an acute a image.	angle to Earth's surface is known as a(n)

# **Essay**

- 1. Describe the factors that cause the Earth's shape to depart from true sphericity.
- 2. Explain conformal, equal-area, and compromise world maps in terms of their advantages and drawbacks. What are some of the applications for each type of map?
- 3. How are computers, remote sensing imagery, and GISs used to increase our ability to analyze spatial information, data, distributions, and relationships? Explain with a specific example.

# **Chapter 2 Test Bank Answer Key**

#### **Learning Objectives:**

LO1: Explain the ways that Earth and its regions, places, and location can be represented on a variety of visual media: maps, aerial photographs, and other imagery.

LO2: Assess the nature and importance of maps and maplike presentations of the planet or parts of Earth, citing some examples.

LO3: Find and describe the locations of places using coordinate systems, use topographic maps to find elevations, and understand the three types of map scales.

LO4: Demonstrate knowledge of techniques that support geographic investigations, including mapping, spatial analysis, satellite and aerial photography.

LO5: Evaluate the advantages and limitations of different kinds of representations of Earth and its areas.

LO6: Understand how the proper techniques, images, and maps can be used to best advantage in solving geographic problems.

LO7: Recognize the benefits of spatial technologies such as geographic information systems (GIS), the Global Positioning System (GPS), and remote sensing.

### **Multiple Choice**

1.	c	LO5	11.	b	LO5	21.	b	LO3
2.	d	LO3	12.	d	LO5	22.	a	LO7
3.	c	LO2	13.	b	LO5	23.	b	LO4
4.	b	LO3	14.	a	LO5	24.	d	LO1
5.	b	LO6	15.	d	LO3	25.	d	LO3
6.	d	LO5	16.	b	LO3	26.	b	LO3
7.	c	LO7	17.	d	LO1	27.	c	LO7
8.	a	LO1	18.	c	LO3	28.	a	LO5
9.	b	LO3	19.	b	LO7	29.	b	LO3
10.	b	LO3	20.	b	LO3	30.	d	LO7

# **True-False**

1.	T LO3	7.	F LO3
2.	T LO7	8.	T LO3
3.	F LO1	9.	T LO2
4.	T LO7	10.	F LO3
5.	T LO3	11.	T LO7
6.	F LO5		

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# Fill-in-the-Blank

1.	prime meridian	LO3
2.	+ 6	LO3
3.	Scale	LO1
4.	legend	LO1
5.	conformal	LO1
6.	magnetic declination	LO3
7.	azimuth	LO3
8.	equator	LO3
9.	range; township	LO3
10.	oblique	LO4