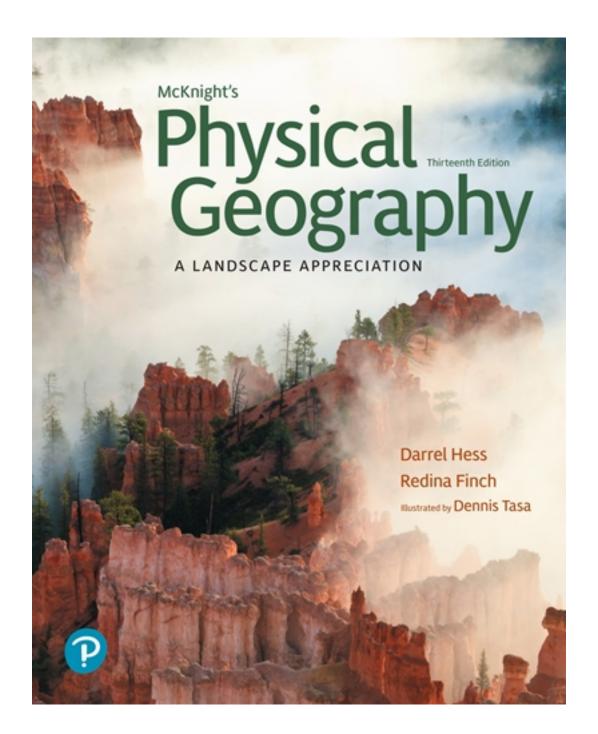
Test Bank for McKnight's Physical Geography 13th Edition by Hess

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Test Bank

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Physical Geography: A Landscape Appreciation, 13e (Hess) Chapter 2 Portraying Earth

1) By far, the greatest use of thermal infrared scanning systems has been
A) with lidar
B) onboard weather satellites
C) at the sea bottom
D) in aerial photography
E) exploring the moon
Answer: R

Answer: B Diff: 1

Topic/Section: Thermal Infrared Sensing Bloom's Taxonomy: 2. Understand

- 2) The modernization of the U.S. GPS to be exactly compatible with the systems of other countries _____.
- A) is now completed
- B) will be so efficient so only two satellites are needed
- C) will not use satellites
- D) is scheduled to be completed in the 2030s
- E) has been scrapped

Answer: E Diff: 1

Topic/Section: GNSS-Global Navigational Satellite System

Bloom's Taxonomy: 2. Understand

- 3) Which projection is produced by projecting the markings of a center-lit globe onto a flat piece of paper that is tangent to the globe at one point? That point is usually the North or South Pole.
- A) Mercator
- B) Denali
- C) Cylindrical
- D) Equal area
- E) Planar

Answer: E

Diff: 2

Topic/Section: Planar Projections Bloom's Taxonomy: 1. Remember 4) Because of the great precision of the technology, GPS output is usually provided in _____.

	C) degrees, minutes, and seconds
	D) radians
	E) meters
	Answer: B
	Diff: 1
	Topic/Section: GNSS-Global Navigational Satellite System
	Bloom's Taxonomy: 2. Understand
	5) Using GPS technology, the three-dimensional determination of a location on Earth's surface is
	achieved through
	A) dead reckoning
	B) triangulation
	C) surveying
	D) trilateration
	E) satellite observation of moon and star positions
∑	Answer: D
0	Diff: 2
U	Topic/Section: GNSS-Global Navigational Satellite System
	Bloom's Taxonomy: 2. Understand
V	•
Σ	6) "WAAS" is an acronym for a system: TBEXAM. COM
∢	A) that increases the accuracy of instrument-based flight approaches.
\bowtie	B) that is a type of weather radar.
囝	C) monitoring slight changes in Earth plate movements.
Д	D) which will be used to shoot down enemy missiles.
H	E) storing and displaying antique aerial photographs.
L.	Answer: A
	Diff: 2
	Topic/Section: GNSS-Global Navigational Satellite System
	Bloom's Taxonomy: 2. Understand
	Bloom's Taxonomy. 2. Onderstand
	7) Use of lidar is a remote sensing technique involving the use of
	A) sound
	B) radar
	C) thermal infrared wavelengths
	D) ultraviolet wavelengths
	E) light
	Answer: E
	Diff: 2

Topic/Section: Multispectral Remote Sensing

Bloom's Taxonomy: 2. Understand

A) time unitsB) decimal units

2

Σ

8) Commercial satellites such as GeoEye, SPOT, and Worldview have the common
characteristics that they produce images compared to government-operated satellites.
A) poor quality
B) more black and white
C) higher resolution
D) free
E) photographic film-based images
Answer: B
Diff: 2
Topic/Section: Multispectral Remote Sensing
Bloom's Taxonomy: 5. Evaluate
9) Mt. Rainier National Park is in the Cascade Range in Washington State. The park is
spectacular because Mt. Rainier is
A) the tallest mountain in the United States
B) a glaciated volcano
C) the driest place in the United States
D) accessible by a motor road to the top
E) the largest national park in the United States
Answer: B
Diff: 2
Topic/Section: Mount Rainier
Bloom's Taxonomy: 1. Remember
TBEXAM.COM
10) Geographers use different kinds of maps to study different aspects of the environment.
Which kind of map might a geographer use to study Mt. Rainier National Park?
A) A Lidar image showing ice
B) A precipitation map showing areas of greatest snowfall
C) A geologic map
D) A map of recent earthquakes
E) All of these types
Answer: A
Diff: 2
Topic/Section: Mount Rainier
Bloom's Taxonomy: 2. Understand
11) A . 1 1 11 1
11) A standard parallel on a map:
A) is used in cylindrical projections.
B) could be the Equator on some maps.
C) is tangent to the globe.
C) is tangent to the globe.D) could be placed at any latitude.
C) is tangent to the globe.D) could be placed at any latitude.E) is correctly described by all these choices.
C) is tangent to the globe.D) could be placed at any latitude.E) is correctly described by all these choices.Answer: E
C) is tangent to the globe. D) could be placed at any latitude. E) is correctly described by all these choices. Answer: E Diff: 3
C) is tangent to the globe.D) could be placed at any latitude.E) is correctly described by all these choices.Answer: E

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16) What are the characteristics of a compromise map projection?

Answer: Because both conformality and equivalence are impossible on a single map, cartographers frequently create maps that have both reasonable shapes and reasonably accurate areas. This is a compromise that creates suitable map accuracy for many purposes.

Diff: 2

Topic/Section: Map Projections Bloom's Taxonomy: 2. Understand

17) Las Vegas and Dubai are featured on the "Growing a City in the Desert" page in the textbook. Why are these cities especially sensitive to environmental concerns and how can geospatial technologies help make these places sustainable?

Answer: Deserts are difficult settings so that large cities must have reliable water sources for now and the future. It is clear that growth must proceed in a planned way so that city infrastructure will not collapse. Geospatial technologies allow planners to see the "big picture" of urban growth. In these desert cities, a spatial view of the expansion and relation to water resources and other features can help point a city in a way to maximize use of the local conditions.

Diff: 3

Topic/Section: Growing a City in the Desert

Bloom's Taxonomy: 3. Apply

18) Why is GIS so crucial for decision making in modern cities?

Answer: Cities have large environmental and social problems that interact in very complex ways. In bringing together various datasets in map formand overlaying them in map forms, spatial relationships become obvious. Planners can use the maps for problem management or prediction by relating the layers in numerical models. Such models can be used to predict patterns of the future.

Diff: 2

Topic/Section: GIS for Geographic Decision-making

Bloom's Taxonomy: 3. Apply

19) A disadvantage of globes compared to maps is that globes are NOT _____.

- A) conformal
- B) accurate
- C) suitable for use in class
- D) equivalent
- E) as portable

Answer: E

Diff: 1

Topic/Section: Maps and Globes Bloom's Taxonomy: 1. Remember

20) A map made to show the distribution of one or more phenomenon is a(n) map.
A) conic
B) isoline
C) equivalent
D) compromise
E) thematic
Answer: E
Diff: 1
Topic/Section: Maps
Bloom's Taxonomy: 1. Remember
21) The relationship between the man distance and the corresponding distance on the ground is
21) The relationship between the map distance and the corresponding distance on the ground is known as the
A) vector
B) azimuth
C) map quotient
D) loxodrome
E) scale
Answer: E
Diff: 1
Topic/Section: Map Scale
Bloom's Taxonomy: 1. Remember
21001110 1411011011191 111111111011
22) "Scale" relates to to TBEXAM. COM
A) Earth distance, Earth distance
B) map distance, map distance
C) map distance, Earth distance
D) Earth distance, map distortion
E) map distortion, map distance
Answer: C
Diff: 1
Topic/Section: Map Scale
Bloom's Taxonomy: 1. Remember
23) The largest scale among the following representative fractions is
A) 1:100,000
B) 1:1,000,000
C) 1:24,000
D) 1:10,000
E) 1:50,000
Answer: D
Diff: 2
Topic/Section: Large-Scale and Small-Scale Maps
Bloom's Taxonomy: 3. Apply

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24) A(n) scale remains correct even if the map is enlarged or reduced when
reproduced.
A) isogonic
B) large
C) graphic
D) representative fraction
E) color
Answer: C
Diff: 3
Topic/Section: Map Scale
Bloom's Taxonomy: 5. Evaluate
Bloom's Taxonomy. S. Evaluate
25) The smallest scale of the following is
A) 1:100,000
B) 1:200,000
C) 1:500,000
D) 1:750,000
E) 1:900,000
Answer: E
Diff: 2
Topic/Section: Large-Scale and Small-Scale Maps
Bloom's Taxonomy: 3. Apply
Bloom's Taxonomy. 3. Apply
26) All map projections have this in commonXAM. COM
A) Small scale
B) Some distortion
C) Equivalence
D) Conformality E) Perfect restrayed of the clobe
E) Perfect portrayal of the globe
Answer: B
Diff: 1
Topic/Section: Map Projections
Bloom's Taxonomy: 1. Remember
27) Conformal maps greatly distort of continents in higher latitudes.
A) shapes
B) sizes
C) the number
D) the latitude
E) the longitude
Answer: B
Diff: 2
Topic/Section: Map Projections
Bloom's Taxonomy: 2. Understand

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28) Every map projection consists of an orderly arrangement of
A) scale
B) the geographic grid
C) legend
D) title
E) interruptions
Answer: B
Diff: 1
Topic/Section: Map Projections
Bloom's Taxonomy: 1. Remember
bloom's Taxonomy. T. Remember
20) A(n) is a line is ining points of a such magnetic declination
29) A(n) is a line joining points of equal magnetic declination.
A) contour line
B) isohyet
C) isotherm
D) isomag
E) isogonic line
Answer: E
Diff: 1
Topic/Section: Map Projections
Bloom's Taxonomy: 2. Understand
30) Most of the maps drawn on projections are for an optimal portrayal of worldwide
distributions. TBEXAM.COM
A) equivalent
B) conformal
C) conic
D) azimuthal
E) gnomonic
Answer: A
Diff: 2
Topic/Section: Map Projections
Bloom's Taxonomy: 1. Remember
31) You wish to navigate your yacht from Europe to the United States. Which type of map
projection would be most useful?
A) Conic
B) Mercator
C) Interrupted
D) Equivalent
E) Cylindrical
Answer: B
Diff: 3
Topic/Section: Map Projections
Bloom's Taxonomy: 3. Apply

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	B) Conic C) Cylindrical D) Equivalent E) A projection without distortion Answer: E Diff: 2 Topic/Section: Map Projections
$\mathbb{C} \to \mathbb{M}$	Bloom's Taxonomy: 5. Evaluate 33) One difference between any two different map projections must always be A) scale B) how the geographic grid is arranged C) the number of degrees from the Equator to the North Pole D) how accurately shapes are portrayed E) how accurately relative sizes are portrayed Answer: B Diff: 3 Topic/Section: Map Projections Bloom's Taxonomy: 5. Evaluate
TBEXAM.	34) is the "major dilemma" of mapmaking explained by the text. A) Conformality versus scale

32) Which of the following map projections is impossible to construct?

A) Mercator

- 36) Which map-making method would be used to minimize distortion of continents on a world map? A) A perfectly equivalent projection B) A large scale C) A conic projection
- D) An interrupted projection
- E) A Mercator projection

Answer: D Diff: 3

Topic/Section: Map Properties Bloom's Taxonomy: 5. Evaluate

- 37) The most famous and most widely used of all the map projections is the _____ projection.
- A) gnomonic
- B) Mercator
- C) polyconic
- D) sinusoidal
- E) Mollweide

Answer: B

Diff: 1

Topic/Section: Cylindrical Projections Bloom's Taxonomy: 2. Understand

TBEXAM.COM

- 38) A loxodrome is another term for _____.
- A) rhumb line
- B) X-ray
- C) gnomon
- D) thermal scanner
- E) meridian

Answer: A

Diff: 1

Topic/Section: Cylindrical Projections Bloom's Taxonomy: 1. Remember

- 39) In the Mercator projection, which piece of the Earth is portrayed ridiculously large in comparison to its actual size?
- A) Low-latitude locations
- B) Greenland
- C) Brazil
- D) The continental United States
- E) The continent of Africa

Answer: B Diff: 1

Topic/Section: Cylindrical Projections Bloom's Taxonomy: 2. Understand

	C) the fact that it is so old D) the curved loxodromes E) latitudinal differences in scale Answer: E Diff: 3 Topic/Section: Cylindrical Projections Bloom's Taxonomy: 5. Evaluate
∑ O U	41) The main purpose of the interruption of projections is A) to improve portrayal of the oceans B) to provide a stereoscopic view C) to make maps compatible with air photos D) to show the continents in an equal area rendition E) to save ink during printing Answer: D Diff: 2 Topic/Section: Pseudocylindrical Projections Bloom's Taxonomy: 2. Understand
TBEXAM. C	42) If one wished to produce a map which focused on the continents and showed little of the world's oceans, then she/he should use a(n) EXAM. C projection. A) large scale B) equal area C) interrupted D) conical E) azimuthal Answer: C Diff: 2 Topic/Section: Pseudocylindrical Projections Bloom's Taxonomy: 3. Apply 43) Together, title, date, and legend on a map are known as A) marginal information B) necessary information C) cartographic license D) map essentials E) optional pieces
	Answer: D Diff: 1 Topic/Section: Map Essentials Bloom's Taxonomy: 2. Understand

40) Misuse of the Mercator projection is a result of _____. A) inaccurate projection of latitude and longitude

B) the Cold War

44) Which of the following should contain a brief summary of the map's content or purpose?
A) The title
B) The legend
C) The scale
D) The area within the map boundaries
E) The data source
Answer: A
Diff: 2
Topic/Section: Map Essentials
Bloom's Taxonomy: 5. Evaluate
45) The explanations of symbols used on a map should be contained in
A) the title
B) the scale
C) the legend
D) the space under the north arrow
E) the data source
Answer: C
Diff: 1
Topic/Section: Map Essentials
Bloom's Taxonomy: 5. Evaluate
46) A(n) is the generic term for any map line which joins points of equal value.
A) projection TBEXAM. COM
B) meridian
C) rhumb line
D) isoline
E) legend
Answer: D
Diff: 1
Topic/Section: Isolines
Bloom's Taxonomy: 1. Remember
47) T
47) To represent elevation on maps, cartographers use, which are a form of isoline.
A) rhumb lines
A) rhumb lines
A) rhumb lines B) contour lines
A) rhumb lines B) contour lines C) isoamplitudes D) meters E) isotherms
A) rhumb lines B) contour lines C) isoamplitudes D) meters
A) rhumb lines B) contour lines C) isoamplitudes D) meters E) isotherms
A) rhumb lines B) contour lines C) isoamplitudes D) meters E) isotherms Answer: B

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48) To construct an isoline on a map, it is necessary to
A) make the map both equivalent and conformal
B) note the magnetic declination
C) color it purple
D) first draw the line on a globe
E) interpolate between points of known value
Answer: E
Diff: 3
Topic/Section: Isolines Bloom's Taxonomy: 5. Evaluate
Bloom's Taxonomy. S. Evaluate
49) Which of the following is essential for GPS to function?
A) Highly accurate timekeeping
B) A nearby base station on Earth's surface
C) A small radar unit
D) A GIS unit in a receiver
E) Locations on land instead of ocean
Answer: A
Diff: 1
Topic/Section: GPS - The Global Positioning System
Bloom's Taxonomy: 2. Understand
50) Which of the following is the acronym for the system of U.S. Department of Defense satellites, which are used to establish exact locations on Earth? A) GIS B) Landsat C) GPS D) EOS E) Color infrared Answer: C Diff: 1 Topic/Section: GPS - The Global Positioning System Bloom's Taxonomy: 2. Understand
51) The U.S. version of GPS is dependent on triangulation using a network ofsatellites. A) 2 B) 3 C) 5
D) 24
E) 108
Answer: D
Diff: 2
Topic/Section: GPS - The Global Positioning System
Bloom's Taxonomy: 2. Understand

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52) The global positioning system (GPS) is based on A) aerial photography B) infrared light sources C) data from satellites D) large, expensive receivers E) gravity waves from the Sun and Moon Answer: C Diff: 1 Topic/Section: GPS - The Global Positioning System	
Bloom's Taxonomy: 1. Remember	
 53) Which of the following is NOT part of a Geographic Information System? A) Collection, input, and correction of data B) Human drawing of isolines on maps C) Data storage and retrieval D) Output and reporting E) Manipulation and analysis of data layers 	
Answer: B Diff: 2	
Topic/Section: GPS - The Global Positioning System Bloom's Taxonomy: 3. Apply	
54) For the geographer, the new mapping tools like remote sensing, GPS, and GIS are viewed as TBEXAM.COM A) replacements for traditional geographic description B) in the test mode and too expensive for most geographers to use C) adjuncts to field study D) aids to the study of small areas E) too difficult for geographers to use Answer: C Diff: 3 Topic/Section: GPS - The Global Positioning System Bloom's Taxonomy: 5. Evaluate	best
55) is the science of obtaining reliable measurements from photographs.A) SonarB) Orthophoto mapping	
C) Remote sensing D) Photogrammetry	
E) Satellite imaging Answer: D	
Diff: 1	
Topic/Section: Remote Sensing Bloom's Taxonomy: 1. Remember	

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56) The first airborne platform for aerial photography was a(n)
A) balloon
B) airplane
C) kite
D) satellite
E) lighthouse
Answer: A
Diff: 1
Topic/Section: Remote Sensing
Bloom's Taxonomy: 1. Remember
57) is the science of taking reliable measurements from aerial photographs.
A) Cartography
B) Photogrammetry
C) Map projection
D) Multispectral scanning
E) Symap
Answer: B
Diff: 1
Topic/Section: Remote Sensing
Bloom's Taxonomy: 1. Remember
the second of th
58) In film photography, the photographic film is sensitive to wavelengths longer than
visible light. TBEXAM. COM
A) color infrared
B) passive microwave
C) true color
D) panchromatic
E) Landsat
Answer: A
Diff: 1
Topic/Section: Remote Sensing
Bloom's Taxonomy: 2. Understand
2100ms Takonomy. 210marsuma
59) The type of remote sensing which can penetrate clouds at night for accurate terrain
representation is
A) radar
B) sonar
C) passive microwave
D) thermal infrared
E) Landsat
Answer: A
Diff: 1
Topic/Section: Remote Sensing
Bloom's Taxonomy: 2. Understand
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Answer: A Diff: 2

Topic/Section: Remote Sensing Bloom's Taxonomy: 5. Evaluate

60) Which of the following is NOT a form of remote sensing? A) Aerial photography B) Color infrared photography C) Radar D) Thermal infrared imaging E) Measurement by thermometer Answer: E Diff: 2 Topic/Section: Remote Sensing Bloom's Taxonomy: 5. Evaluate
61) On an orthophoto map, one might expect to find A) distortion-free photographs B) many problems with map distortion C) sketches rather than true projections D) cultural but not physical features E) symbols that are difficult to read Answer: A Diff: 1 Topic/Section: Remote Sensing Bloom's Taxonomy: 2. Understand
62) Which of the below is an active remote sensing system? A) Color infrared photography B) Landsat C) Microwave remote sensing D) Thermal infrared imagery E) Black and white aerial photography Answer: C Diff: 2 Topic/Section: Remote Sensing Bloom's Taxonomy: 3. Apply
63) Aside from normal photographic film, film has proven very valuable for interpretation of Earth resources from airborne cameras. A) color infrared B) ultraviolet C) thermal infrared D) X-ray E) gamma ray

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- 64) On which type of aerial imagery would a football field of artificial grass be discernible from natural grass?
- A) Color photography
- B) Black and white photography
- C) Color infrared photography
- D) Radar imagery
- E) Microwave imagery

Answer: C Diff: 2

Topic/Section: Remote Sensing Bloom's Taxonomy: 3. Apply

- 65) Which of the following refers to an "active" remote sensing system?
- A) Radar
- B) Color infrared photography
- C) GPS
- D) Thermal infrared imagery
- E) Black and white photography

Answer: A

Diff: 2

Topic/Section: Remote Sensing Bloom's Taxonomy: 4. Analyze

- 66) A satellite that remains over the same spot all the time is _____.
- A) geosynchronous
- B) photogrammetric
- C) a "low orbiter"
- D) Landsat mission
- E) an impossibility

Answer: A

Diff: 2

Topic/Section: Remote Sensing Bloom's Taxonomy: 4. Analyze

- 67) Which of the below wavelengths have been most useful in measuring biomass?
- A) Ultraviolet
- B) X-rays
- C) Near infrared
- D) Radio wavelengths
- E) Gamma wavelengths

Answer: C

Diff: 2

Topic/Section: Remote Sensing Bloom's Taxonomy: 4. Analyze

68) Which remote sensing system senses the longest wavelengths?

A) Landsat

B) Color photography

	C) Thermal infrared imaging D) Radar
	E) Black and white photography
	Answer: D
	Diff: 3
	Topic/Section: Remote Sensing
	Bloom's Taxonomy: 5. Evaluate
	69) MODIS is associated with which satellite series?
	A) Landsat
	B) GOES
	C) Space Shuttle
	D) NIMBUS
	E) EOS
L	Answer: E
Σ	Diff: 3
0	Topic/Section: Remote Sensing
Ŋ	Bloom's Taxonomy: 5. Evaluate
•	70) In terms of remote sensing, geographers
Σ	A) should not stop using maps and field studyXAM. COM
Ø	B) have shown very little interest
\bowtie	C) will someday identify one remote sensing type best for all purposes
ᅜ	D) have never used remote sensing
М	E) should never use remote sensing
⊢	Answer: A
	Diff: 3
	Topic/Section: Remote Sensing
	Bloom's Taxonomy: 5. Evaluate
	71) The first aerial photographs were taken
	A) in the middle 1800s
	B) during World War II
	C) during the Vietnam War
	D) during the Korean War
	E) in the middle 1600s
	Answer: A
	Diff: 1
	Topic/Section: Aerial Photographs
	Bloom's Taxonomy: 1. Remember

72) The "false color" imagery of some aerial photographs is also termed
A) Landsat
B) microwave
C) color IR
D) sonar
E) radar
Answer: C
Diff: 1
Topic/Section: Visible Light and Infrared Sensing
Bloom's Taxonomy: 2. Understand
73) On color infrared photography, living green vegetation appears
A) blue
B) orange
C) red
D) green
E) violet
Answer: C
Diff: 1
Topic/Section: Visible Light and Infrared Sensing
Bloom's Taxonomy: 1. Remember
74) is the type of remote sensing imagery best suited to use at night. A) Visible TBEXAM. COM
B) An orthophoto map
C) Color infrared
C) Color Illitated
D) Polaroid
D) Polaroid E) Thermal infrared
D) Polaroid E) Thermal infrared Answer: E
D) Polaroid E) Thermal infrared Answer: E Diff: 2
D) Polaroid E) Thermal infrared Answer: E Diff: 2 Topic/Section: Visible Light and Infrared Sensing
D) Polaroid E) Thermal infrared Answer: E Diff: 2
D) Polaroid E) Thermal infrared Answer: E Diff: 2 Topic/Section: Visible Light and Infrared Sensing
D) Polaroid E) Thermal infrared Answer: E Diff: 2 Topic/Section: Visible Light and Infrared Sensing Bloom's Taxonomy: 3. Apply
D) Polaroid E) Thermal infrared Answer: E Diff: 2 Topic/Section: Visible Light and Infrared Sensing Bloom's Taxonomy: 3. Apply 75) Which of the following portions of the electromagnetic spectrum is sensed on FILM?
D) Polaroid E) Thermal infrared Answer: E Diff: 2 Topic/Section: Visible Light and Infrared Sensing Bloom's Taxonomy: 3. Apply 75) Which of the following portions of the electromagnetic spectrum is sensed on FILM? A) Microwave B) Radar C) Thermal infrared
D) Polaroid E) Thermal infrared Answer: E Diff: 2 Topic/Section: Visible Light and Infrared Sensing Bloom's Taxonomy: 3. Apply 75) Which of the following portions of the electromagnetic spectrum is sensed on FILM? A) Microwave B) Radar C) Thermal infrared D) Color infrared
D) Polaroid E) Thermal infrared Answer: E Diff: 2 Topic/Section: Visible Light and Infrared Sensing Bloom's Taxonomy: 3. Apply 75) Which of the following portions of the electromagnetic spectrum is sensed on FILM? A) Microwave B) Radar C) Thermal infrared D) Color infrared E) Multispectral
D) Polaroid E) Thermal infrared Answer: E Diff: 2 Topic/Section: Visible Light and Infrared Sensing Bloom's Taxonomy: 3. Apply 75) Which of the following portions of the electromagnetic spectrum is sensed on FILM? A) Microwave B) Radar C) Thermal infrared D) Color infrared E) Multispectral Answer: D
D) Polaroid E) Thermal infrared Answer: E Diff: 2 Topic/Section: Visible Light and Infrared Sensing Bloom's Taxonomy: 3. Apply 75) Which of the following portions of the electromagnetic spectrum is sensed on FILM? A) Microwave B) Radar C) Thermal infrared D) Color infrared E) Multispectral Answer: D Diff: 2
D) Polaroid E) Thermal infrared Answer: E Diff: 2 Topic/Section: Visible Light and Infrared Sensing Bloom's Taxonomy: 3. Apply 75) Which of the following portions of the electromagnetic spectrum is sensed on FILM? A) Microwave B) Radar C) Thermal infrared D) Color infrared E) Multispectral Answer: D

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) By far, the greatest use of IR scanning systems has been
	to penetrate clouds
	onboard meteorological satellites
	in surface weather thermometer shelters
	in making orthophoto quadrangles
E)	to sense underwater features
	nswer: B
	ff: 1
To	opic/Section: Thermal Infrared Sensing
Bl	oom's Taxonomy: 1. Remember
77) The most important Earth resources satellite series was started in the 1970s and is known as
<u></u>	Landsat
	Sputnik
	TIROS
	Seasat
,	GOES
	nswer: A
	ff: 1
To	opic/Section: Multispectral Remote Sensing
	oom's Taxonomy: 2. Understand
Ea A) B) C) D) E) Au Di To Bl	Satellite data are analyzed in individual pieces representing several to many meters on the arth's surface. These pieces are known as pixels RBVs false color images scan lines computer maps nswer: A ff: 1 pic/Section: Multispectral Remote Sensing oom's Taxonomy: 2. Understand
A) B) C) D) E) Aı	Radar senses energy in wavelengths longer than 1 angstrom micrometer millimeter meter kilometer nswer: C ff: 2
To	opic/Section: Multispectral Remote Sensing
Bl	oom's Taxonomy: 2. Understand

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80) Which of the following forms of remote sensing is based on sound?
A) Sonar
B) Microwave sensing
C) Radar D) Thermal infrared imaging
D) Thermal infrared imaging E) Color infrared photography
Answer: A
Diff: 1
Topic/Section: Multispectral Remote Sensing
Bloom's Taxonomy: 2. Understand
Diodito Taxonomy. 2. Chaorstana
81) Radar imagery is suited for sensing
A) emitted heat
B) reflected light
C) terrain
D) crop health
E) fluctuations in Earth's orbit
Answer: C
Diff: 2
Topic/Section: Multispectral Remote Sensing
Bloom's Taxonomy: 3. Apply
92) Which of the following is the most recent type of Forth recovery satallities?
82) Which of the following is the most recent type of Earth resource satellites? A) Landsat TBEXAM. COM
B) GOES
C) NEXRAD
D) EOS
E) GPS
Answer: D
Diff: 3
Topic/Section: Multispectral Remote Sensing
Bloom's Taxonomy: 5. Evaluate
•
83) Which of the following is most closely identified with "multispectral remote sensing?"
A) Radar imaging
B) Color infrared photography
C) Landsat
D) Microwave imaging
E) Thermal infrared scanning
Answer: C
Diff: 3
Topic/Section: Multispectral Remote Sensing

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Bloom's Taxonomy: 5. Evaluate

84) The basic imaging instrument in the Landsat series of satellites is known as the
A) camera
B) radar screen
C) pixel
D) thematic mapper
E) Skylab data
Answer: D
Diff: 3
Topic/Section: Multispectral Remote Sensing
Bloom's Taxonomy: 5. Evaluate
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85) A GIS is a library of information based on
A) satellites
B) stereoscopic image viewing
C) many land survey records stored on microfilm
D) manual cartography
E) maps
Answer: E
Diff: 2
Topic/Section: Geographic Information Systems (GIS)
Bloom's Taxonomy: 4. Analyze
86) A geographic information systems allows a link between data and a(n)
A) scientific theory TBEXAM. COM
B) map
C) computer
D) color
E) orthophoto mapping
Answer: B
Diff: 2
Topic/Section: Geographic Information Systems (GIS)
Bloom's Taxonomy: 5. Evaluate
97) Duch able the largest concern with the concern had a see of more and important is
87) Probably the largest concern with the geographer's use of maps and imagery is
A) choosing the most effective maps and imagery
B) making sure it is available on the Internet
C) to always use GIS D) to make sure the property of equivalence is always preserved
E) to use images instead of maps when possible Answer: A
Diff: 3
Topic/Section: Geographic Information Systems (GIS)
Bloom's Taxonomy: 5. Evaluate

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88) Which of the following would be used for overlay map analysis where two or more map layers are superimposed or integrated? A) GIS B) Landset
B) Landsat C) GPS
D) EOS
E) Color infrared
Answer: A
Diff: 3 Topic/Section: Congression Information Systems (CIS)
Topic/Section: Geographic Information Systems (GIS) Bloom's Taxonomy: 5. Evaluate
89) Which of the following would be a type of application in which a geographic information system would NOT be used?
A) Integrating topographic information with vegetation information
B) Environment site assessment
C) Resource management D) Environmental monitoring
E) Monitoring of weather data at a single weather station
Answer: E
Diff: 3
Topic/Section: Geographic Information Systems (GIS)
Bloom's Taxonomy: 5. Evaluate
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90) Which of the following choices represents a technology into which the other choices can be used as inputs?
A) GPS
B) GIS
C) Landsat imagery
D) Field data
E) Aerial photography
Answer: B
Diff: 3 Topic/Section: Congression Information Systems (CIS)
Topic/Section: Geographic Information Systems (GIS) Bloom's Taxonomy: 5. Evaluate
91) A(n) scale is a type of map scale which makes use of a line marked off in graduated distances. Answer: graphic
Diff: 2

Topic/Section: Map Scale Bloom's Taxonomy: 2. Understand

92) The representative fraction equivalent to the statement "one inch equals one mile" is
Answer: 1:63,360 or 1:62,500 Diff: 2
Topic/Section: Map Scale
Bloom's Taxonomy: 1. Remember
93) Equivalence is the property of map projections which Answer: causes areas to be shown in their correct relative sizes on a map projection Diff: 1 Topic/Section: Map Projections
Bloom's Taxonomy: 2. Understand
94) A problem with conformal projections is that Answer: areas must be distorted to show proper shapes Diff: 1
Topic/Section: Map Properties
Bloom's Taxonomy: 2. Understand
95) Title, date, and legend are three of the five (2 words). Answer: map essentials Diff: 3 Topic/Section: Map Essentials Bloom's Taxonomy: 5. Evaluate TBEXAM.COM
96) is the measurement or acquisition of information by a recording device which is not in physical contact with the object under study. Answer: Remote sensing Diff: 1 Topic/Section: Remote Sensing Bloom's Taxonomy: 1. Remember
97) is the Landsat spectral band used for identification of wetlands, organic soils, and water bodies. Answer: The near infrared Diff: 1
Topic/Section: Visible Light and Infrared Sensing
Bloom's Taxonomy: 2. Understand
98) micrometers is a wavelength of visible light. (ANY of the wavelengths will do.) Answer: Any wavelength between 0.36 and 0.72 micrometers. Diff: 3
Topic/Section: Visible Light and Infrared Sensing Bloom's Taxonomy: 3. Apply

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99) Explain how the properties of conformality and equivalence always pose a dilemma to the mapmaker.

Answer: This is the classic problem for the mapmaker. A map cannot preserve both shape and relative size. A cartographer must choose one or the other or neither.

Diff: 2

Topic/Section: Map Properties Bloom's Taxonomy: 3. Apply

100) Name 4 of the 6 essentials and the purpose of each one. Include definition of each.

Answer: Title, date, legend, scale, direction, location.

Diff: 3

Topic/Section: Map Essentials Bloom's Taxonomy: 5. Evaluate

101) Explain how the Global positioning system operates to locate your position within a few meters.

Answer: GPS trilaterates position by using the distance and direction to several polar orbiting satellites. The orbits are well known and a satellite is located via radio transmissions from the satellite.

Diff: 2

Topic/Section: GPS - The Global Positioning System

Bloom's Taxonomy: 2. Understand

102) Compare/contrast the purposes of Landsat and commercial high-resolution satellites.

Answer: Landsat in the public domain for Earth resources. Commercial satellites also study Earth resources but at higher resolution and the user is charged considerable money to do so.

Diff: 3

Topic/Section: Multispectral Remote Sensing

Bloom's Taxonomy: 5. Evaluate

103) Explain how the use of multispectral scanning is an advantage over the use of a single band when identifying Earth features via remote sensing.

Answer: Various bands are best for various features—give example(s). The point is that a combination of bands should be superior.

Diff: 3

Topic/Section: Multispectral Remote Sensing

Bloom's Taxonomy: 5. Evaluate

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104) Suppose a geographer was hired to help assess the health/vigor of the winter wheat crop (to be harvested in the late spring) in an agricultural county of a Great Plains state, the object would be to predict the winter wheat yield two months in advance. What sort of remote sensing techniques might be used and why?

Answer: Answers will vary. The student should mention some form of remote sensing (photography or satellite imaging) that uses the near infrared portion of the spectrum sensitive to plant greenness.

Diff: 3

Topic/Section: Multispectral Remote Sensing

Bloom's Taxonomy: 5. Evaluate

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