Physical Geography A Landscape Appreciation 9th Edition McKnight Test Bank

am						
me						
JLTIPLE CHOICE.	Choose the	one alternative	e that best complete	es the statement or ar	swers the question.	
1) The relation: as the A) loxodr B) map qi C) vector D) scale E) azimu	 ome ootient	n the map distar	nce and the correspo	onding distance on th	e ground is known	1)
Answer: D Explanation	A) B) C) D) E)					
2) The first airk A) airplar		m for aerial pho) lighthouse	otography was a C) balloon	 D) satellite	E) kite	2)
Answer: C Explanation		y fighthouse	cy bulloon	by sutomic	Ly into	
A) stretchB) distortC) bends	es the circle of shapes parallels s the Poles as	of tangency	curate size althougl	n it		3)
Answer: B Explanation						

For the geogra	pher, th	e new mapping to	ols like remote sensi	ng, GPS, and GIS are	best viewed as	4)	
A) adjuncts		•				_	
·	-	of small areas.					
•		traditional geogra					
		geographers to use					
E) in the tes	st mode	and too expensive	for most geographer	rs to use.			
Answer: A							
Explanation:	A)						
	B)						
	C)						
	D)						
	E)						
->						-\	
5) The smallest so		_	C) 1.000 000	D) 1.F00.000	E) 1.7E0 000	5) _	
A) 1:200,000).	B) 1:100,000.	C) 1:900,000.	D) 1:500,000.	E) 1:750,000.		
Answer: C	• >						
Explanation:	A)						
	B)						
	C)						
	D) E)						
	E)						
6) All map project	ctions ha	ave this in commor	า			6)	
A) conforma						-/ -	
B) equivale							
C) some dis							
D) small sca							
E) perfect p	ortrayal	of the globe.					
Answer: C							
Explanation:	A)						
•	В)						
	C)						
	D)						
	E)						
	ap is cor	nstructed by projec	ting the grid of the g	Jlobe onto a(n)	·	7) _	
A) circle							
B) interrupt	ea surta	ace					
C) cone							
D) cylinder	00						
E) flat surfa	ce						
Answer: D	• >						
Explanation:	A)						
	B)						
	C)						
	D)						
	E)						

8) The most impo	ortani Ea	artin resources sa	iterrite series was start	ed in the 1970s and is	s known as	8)	
A) Seasat		B) GOES	C) TIROS	D) Landsat	E) Sputnik		
Answer: D							
Explanation:	A)						
	B)						
	C)						
	D)						
	E)						
•	ly equiv	ethod would be alent projection	used to minimize dist	ortion of continents o	on a world map?	9)	
C) an interro	rojectio	า					
E) a Mercate	or proje	ction					
Answer: C Explanation:	A)						
	B) C)						
	D)						
	E)						
10) The original po A) for ocean			orojection was			10)	
		map of the worl	d. Il geography students				
D) for the gu	uidance	of intercontinen curate, equal are	tal missiles.				
Answer: A							
Explanation:	A)						
,	B)						
	C)						
	D)						
	E)						
11) A laxodrome is	s anothe	er term for				11)	
A) gnomon B) x-ray							
C) rhumb li	ne						
D) thermal s							
E) none of t		е					
Answer: C							
Explanation:	A)						
	B)						
	C)						
	D)						
	E)						

12) is the	e science of taking reliable measurements from aerial photographs.	12)
A) Photogra	ammetry	
B) Map pro	jection	
	ectral scanning	
D) Cartogra		
E) Symap	Prij	
- · · ·		
Answer: A		
Explanation:	A)	
	B)	
	c)	
	D)	
	E)	
	L)	
	e maps, it is difficult to achieve	13)
A) conform		
B) proper s		
C) pole-cer	itered perspective	
D) a circle o	f tangency	
E) equivale	ncy	
Answer: E	,	
	^	
Explanation:	A)	
	B)	
	C)	
	D)	
	E)	
14) Three dimens	ional effects are best obtained with	14)
A) thermal:	scanners	
	rared photography	
	et photographs	
	aerial photographs	
E) none of t	ine above	
Answer: D		
Explanation:	A)	
•	B)	
	c)	
	D)	
	E)	
	L)	
15) Aerial photog	raphy of the Earth's surface taken from an angle other than straight down is termed	15)
·		
A) vertical		
B) isogonic		
C) oblique		
D) useless		
E) photogra	ammetric	
Answer: C		
Explanation:	A)	
	B)	
	C)	
	D)	
	É)	

	ollowing would be a type of application in which a geographic information system	16)
could be used		
_	ng topographic information with vegetation information	
	nental monitoring	
·	nent site assessment	
	management	
E) all of the	above	
Answer: E		
Explanation:	A)	
	B)	
	C)	
	D)	
	E)	
17) Mhich of the f	allowing is assential for CDS to function?	17)
	ollowing is essential for GPS to function?	17)
	it in a receiver	
•	ccurate clocks	
	base station on Earth's surface	
E) a small r		
Answer: C		
Explanation:	A)	
Explanation.	В)	
	C)	
	D)	
	E)	
	ollowing forms of remote sensing is based on sound?	18)
A) microwa	ve sensing	
B) sonar	infrared imaging	
D) radar	inital ed intaging	
•	rared photography	
Answer: B	area priotography	
Explanation:	Δ)	
Explanation.	B)	
	C)	
	D)	
	E)	
	ale remains correct even if the map is enlarged or reduced when reproduced.	19)
A) large		
B) graphic		
C) isogonic		
	tative fraction	
E) color		
Answer: B		
Explanation:	A)	
	B)	
	C) D)	
	E)	
	- /	

20) Radar is an "ac	tive" remote sensing system and	is a "passive" system using the same	20)
wavelengths.			
	nfrared sensing		
B) photogra			
C) microwa			
D) ultraviole			
E) the use of	f a thermometer		
Answer: C			
Explanation:	A)		
	B)		
	C)		
	D)		
	E)		
21) In the Merceton	r projection, which piece of the Earth i	s portrayed ridiculously large in comparison	21)
to its actual siz		s portrayed fidiculously large in comparison	
A) Greenlan			
B) the contir			
C) Brazil	ional Gio.		
•	ude locations		
	nent of Africa		
Answer: A			
Explanation:	A)		
p	B)		
	Ć)		
	D)		
	E)		
	ollowing refers to an "active" remote se	ensing system?	22)
A) microway			
	nfrared imagery		
C) radar	ared photography		
	ared priotography nd white photography		
Answer: C	id writte priotography		
Explanation:	۸)		
Expiditation:	A) B)		
	C)		
	D)		
	E)		

	formation system technology is a direct result of advances in	23)
A) spatial sta		
B) compute	r cartography.	
C) surveyin	g.	
D) remote se	ensing.	
E) all of the		
Answer: E		
	A.\	
Explanation:	A)	
	B)	
	C)	
	D)	
	E)	
24) The scale of 1:6	53,360 is the same as one inch equals	24)
A) one mile		'
B) one mete	r	
C) one furlo		
D) one yard		
E) one foot		
•		
Answer: A		
Explanation:	A)	
	B)	
	C)	
	D)	
	E)	
25) Microwave im	agery is ideally suited for sensing	25)
A) emitted h	neat	
B) moisture		
C) reflected		
D) military t		
	ons in Earth's orbit	
	ons in Earth's orbit	
Answer: B		
Explanation:	A)	
	B)	
	C)	
	D)	
	E)	
	•	
26) Which of the fo	ollowing would be used for overlay map analysis where two or more map layers are	26)
superimposed		· —
A) color infr		
B) Landsat		
C) GIS		
•		
D) EOS		
E) GPS		
Answer: C		
Explanation:	A)	
	B)	
	Ć)	
	D)	
	F)	

rojection for world maps. 28)
ontent or purpose? 29)
rojection for world maps. 28)

)		surface of the Earth"	would be	31)
Answer: A Explanation:	A) B) C) D) E)				
32) The first cartoo A) Mercator Answer: E Explanation:	grapher to use isolines o B) Lambert A)	n a published map was C) Aristotle	S D) Robinson	E) Halley	32)
·	B) C) D) E)				
A) have sho B) should n C) should n D) have nev	note sensing, geographe wn very little interest. ot stop using maps and ever use remote sensing ver used remote sensing. eday identify one remot	field study.	all purposes.		33)
Answer: B Explanation:	A) B) C) D) E)				
measurements A) Exact alt	s of its slopes lines		hs. Which of the follo	owing	34)
Answer: A Explanation:	A) B) C) D) E)				

35) A(n)	is a line	e joining points of	equal magnetic de	clination.		35)	
A) contour I	ine						
B) isomag							
C) isotherm							
D) isohyet							
E) isogonic	line						
Answer: E							
Explanation:	A)						
	B)						
	C)						
	D)						
	E)						
36) Which of the fo	ollowin	a is the most recei	nt type of Earth res	ource satellites?		36)	
A) NEXRAI		B) Landsat	C) GOES	D) EOS	E) GPS		-
Answer: D		,	,	,	, -		
Explanation:	A)						
	B)						
	C)						
	D)						
	E)						
	-/						
37) The largest sca	ile amor	ng the following r	epresentative fracti	ons is		37)	
A) 1:100,000)						
B) 1:50,000							
C) 1:1,000,00	00						
D) 1:10,000							
E) 1:24,000							
Answer: D							
Explanation:	A)						
Explanation	B)						
	C)						
	D)						
	E)						
	-/						
38) The first aerial	photog	raphs were taken	l·			38)	
A) in the mi	ddle 16	00s					
B) during th	ne Vietn	am War					
C) in the mi	ddle 18	00s					
D) during th	ne Korea	an War					
E) during W	Vorld W	ar II					
Answer: C							
Explanation:	A)						
•	B)						
	C)						
	D)						
	E)						
	,						

A) GOES	ciated with which satellite series?	39)
B) Space Sh	uttle	
C) EOS	attic	
D) Landsat		
E) NIMBUS		
Answer: C		
Explanation:	A)	
•	B)	
	C)	
	D)	
	E)	
40) Isolines have a	III the properties EXCEPT the following:	40)
	y cross each other.	
	lines indicate a steep gradient.	
	re first used on a map about 300 years ago.	
_	always closed loops.	
E) The num	erical difference between isolines are intervals.	
Answer: A		
Explanation:	A)	
	B)	
	C)	
	D)	
	E)	
11) Mhigh of the f	allowing is NOT part of a Coographic Information System?	41)
41) Which of the r	DIIOWING IS INO I PAIL OF A GEOGRAPHIC INFORMATION SYSTEM?	41)
	ollowing is NOT part of a Geographic Information System? rawing of isolines on maps	41)
A) human d	rawing of isolines on maps age and retrieval	41)
A) human o B) data stor	rawing of isolines on maps	41) <u> </u>
A) human c B) data stor C) collection D) output a	rawing of isolines on maps age and retrieval n, input, and correction of data nd reporting	41)
A) human c B) data stor C) collection D) output a	rawing of isolines on maps age and retrieval n, input, and correction of data	*1)
A) human c B) data stor C) collection D) output a E) manipul Answer: A	rawing of isolines on maps age and retrieval n, input, and correction of data nd reporting	*1)
A) human o B) data stor C) collection D) output a E) manipul	rawing of isolines on maps age and retrieval n, input, and correction of data and reporting ation and analysis of data layers A)	*1)
A) human c B) data stor C) collection D) output a E) manipul Answer: A	rawing of isolines on maps age and retrieval n, input, and correction of data and reporting ation and analysis of data layers A) B)	*1)
A) human c B) data stor C) collection D) output a E) manipul Answer: A	rawing of isolines on maps age and retrieval n, input, and correction of data nd reporting ation and analysis of data layers A) B) C)	*1)
A) human c B) data stor C) collection D) output a E) manipul Answer: A	rawing of isolines on maps age and retrieval n, input, and correction of data nd reporting ation and analysis of data layers A) B) C) D)	***/
A) human c B) data stor C) collection D) output a E) manipul Answer: A	rawing of isolines on maps age and retrieval n, input, and correction of data nd reporting ation and analysis of data layers A) B) C)	*1)
A) human of B) data stor C) collection D) output a E) manipula Answer: A Explanation:	age and retrieval n, input, and correction of data and reporting ation and analysis of data layers A) B) C) D) E)	
A) human of B) data stor C) collection D) output an E) manipul. Answer: A Explanation:	rawing of isolines on maps age and retrieval n, input, and correction of data and reporting ation and analysis of data layers A) B) C) D) E)	42)
A) human of B) data stor C) collection D) output an E) manipul. Answer: A Explanation:	age and retrieval n, input, and correction of data and reporting ation and analysis of data layers A) B) C) D) E)	,
A) human of B) data stor C) collection D) output at E) manipul. Answer: A Explanation:	rawing of isolines on maps age and retrieval n, input, and correction of data nd reporting ation and analysis of data layers A) B) C) D) E) s instant compass bearing.	
A) human of B) data stor C) collection D) output an E) manipul. Answer: A Explanation: 42) A loxodrome if A) line of containing C) a curved D) the opportunity of the containing C) at the containing	rawing of isolines on maps age and retrieval n, input, and correction of data and reporting ation and analysis of data layers A) B) C) D) E) s Instant compass bearing. of the exact great circle route. line on a Mercator projection. site of a rhumb line.	
A) human of B) data stor C) collection D) output an E) manipul. Answer: A Explanation: 42) A loxodrome in A) line of cont B) a tracing C) a curved	rawing of isolines on maps age and retrieval n, input, and correction of data and reporting ation and analysis of data layers A) B) C) D) E) s Instant compass bearing. of the exact great circle route. line on a Mercator projection. site of a rhumb line.	
A) human of B) data stor C) collection D) output at E) manipul. Answer: A Explanation: 42) A loxodrome if A) line of collection B) a tracing C) a curved D) the oppode E) part of a Answer: A	rawing of isolines on maps age and retrieval n, input, and correction of data and reporting ation and analysis of data layers A) B) C) D) E) s Instant compass bearing. of the exact great circle route. line on a Mercator projection. site of a rhumb line.	,
A) human of B) data stor C) collection D) output at E) manipul. Answer: A Explanation: 42) A loxodrome if A) line of collection B) a tracing C) a curved D) the opposition by the opposition B) part of a	rawing of isolines on maps age and retrieval n, input, and correction of data and reporting ation and analysis of data layers A) B) C) D) E) s Instant compass bearing. of the exact great circle route. line on a Mercator projection. site of a rhumb line. sundial. A)	,
A) human of B) data stor C) collection D) output at E) manipul. Answer: A Explanation: 42) A loxodrome if A) line of collection B) a tracing C) a curved D) the oppode E) part of a Answer: A	rawing of isolines on maps age and retrieval n, input, and correction of data and reporting ation and analysis of data layers A) B) C) D) E) s Instant compass bearing. of the exact great circle route. line on a Mercator projection. site of a rhumb line. sundial. A) B) B)	,
A) human of B) data stor C) collection D) output at E) manipul. Answer: A Explanation: 42) A loxodrome if A) line of collection B) a tracing C) a curved D) the oppode E) part of a Answer: A	rawing of isolines on maps age and retrieval n, input, and correction of data and reporting ation and analysis of data layers A) B) C) D) E) s senstant compass bearing. of the exact great circle route. line on a Mercator projection. site of a rhumb line. sundial. A) B) C)	,
A) human of B) data stor C) collection D) output at E) manipul. Answer: A Explanation: 42) A loxodrome if A) line of collection B) a tracing C) a curved D) the oppode E) part of a Answer: A	rawing of isolines on maps age and retrieval n, input, and correction of data and reporting ation and analysis of data layers A) B) C) D) E) s Instant compass bearing. of the exact great circle route. line on a Mercator projection. site of a rhumb line. sundial. A) B) B)	,

	differences or projection os noto maps aerial phot	s in terrain elevans ns rographs	ee photographic im ations have been rer	age maps. Displacem noved.	ents caused by	43)
Explanation:	A) B) C) D) E)					
44) A(n) A) contour Answer: A Explanation:		ains lines joinin 3) isotherm	g points of equal ele C) isohyet	evation. D) isogonic	E) isobar	44)
45) On which typ grass? A) color inf B) color ph C) black an D) radar im E) microwa Answer: A Explanation:	frared phot notography nd white ph nagery	ography	a football field of ar	tificial grass be disce	rnible from natural	45)
46) Radar senses (A) kilomete (B) angstror (C) meter (D) microme (E) millimete (E) Answer: E (Explanation:	er m eter	vavelengths Ion	ger than 1			46)

47) A(n)	is the generic term for any map line which joins points of equal value.	47)
A) isoline		
B) legend		
C) rhumb lii	ne	
D) meridian		
E) projection	1	
Answer: A		
Explanation:	A)	
	B)	
	Ć)	
	D)	
	É)	
	,	
48) Which of the b	elow wavelengths have been most useful in expanding measure biomass?	48)
A) radio wa		·
B) near infra		
C) ultraviole	et	
D) x-rays		
E) gamma v	vavelengths	
Answer: B	· ·	
Explanation:	A)	
Explanation	B)	
	C)	
	D)	
	E)	
	,	
49) To use	, aerial photographs must be carefully overlapped.	49)
A) a stereoso		
B) Landsat		
C) a GIS		
D) digital im	nage processing	
E) sonar		
Answer: A		
Explanation:	A)	
Explanation	B)	
	C)	
	D)	
	E)	
	,	
50) Which of the fo	ollowing is a form of remote sensing?	50)
	nfrared imaging	·
B) aerial pho		
	ared photography	
D) radar		
E) all of the	above	
Answer: E		
Explanation:	A)	
2.10.311410111	B)	
	C)	
	D)	
	F)	

	ollowing portions of the electromagnetic spectrum is sensed on FILM?	51)
A) Thermal i B) Color infr		
C) Radar		
D) Microwa		
E) Multispe	ctral	
Answer: B	A)	
Explanation:	A) B)	
	C)	
	D)	
	E)	
52) You wish to na	vigate your yacht from Europe to the United States. Which type of map projection	52)
would be most		·
A) Mercator		
B) Cylindric C) Equivaler		
D) Conic	II.	
E) Interrupte	ed	
Answer: A		
Explanation:	A)	
	B)	
	C) D)	
	E)	
53) Which of the be Earth surface fe	elow, because of the wavelengths it uses, tends to have the low spatial resolution of	53)
A) Landsat	satures:	
•	I white aerial photography	
	nfrared imagery	
	ared photography	
Answer: E	ve remote sensing	
Explanation:	A)	
Explanation.	B)	
	C)	
	D)	
	E)	

54) If one wished to	produce a map which focused on the continents and showed little of the world's	54)
oceans, then sho A) equal area B) azimuthal		
C) interrupte D) large scale E) conical	ed .	
Answer: C		
Explanation:	A) B)	
	C) D) E)	
55) Geopositioning A) has never	technology been commercially successful.	55)
B) has accura C) typically u	acies better than the best base maps. uses receivers larger than filing cabinets.	
E) began in t	term for the drawing of isolines. he 1920s.	
Answer: B		
Explanation:	A) B)	
	C)	
	D)	
	E)	
56) Which of the fo A) x-rays B) thermal ir	Illowing bands are NOT used by the Earth-sensing satellites mentioned in the text?	56)
C) visible rec D) ultraviole E) microwav	d t	
Answer: A		
Explanation:		
	B) C)	
	D)	
	E)	
A) accurate.	e of globes compared to maps is that globes are not	57)
B) conformal	l. or use in class.	
D) equivalen E) as portabl	t.	
Answer: E		
Explanation:	A) B)	
	C)	
	D) E)	
	•	

58) To represent ele A) contour li B) rhumb lir C) meters D) isotherms E) isoamplite Answer: A Explanation:	nes	_, which are a form of isoline.	58)
59) Maps can be m A) a cylinder B) a plane. C) a cone. D) a piece of E) all of the a Answer: E Explanation:	paper.		59)
A) infrared IB) aerial phoC) large, expD) data from	otography. Jensive receivers.		60)
A) map distaB) Earth distC) map distaD) Earth dist	to nnce, map distance ance, Earth distance ance, Earth distance ortion, map distance A) B) C) D) E)		61)

62) By far, the greatest use of IR scanning systems has been	62)
A) to penetrate clouds.	
B) onboard meteorological satellites.	
C) in surface weather thermometer shelters.	
D) to sense underwater features.	
E) in making orthophoto quadrangles.	
Answer: B	
Explanation: A)	
В)	
C)	
D)	
E)	
63) In film photography, the photographic film is sensitive to wavelengths longer than visit	ble 63)
light.	
A) passive microwave	
B) Landsat	
C) panchromatic	
D) true color	
E) color infrared	
Answer: E	
Explanation: A)	
B)	
C)	
D)	
E)	
64) The characteristic of projections which portray accurate sizes but distort the shapes of land masse	es 64)
is called	
A) equivalence	
B) polyconic	
C) conformality	
D) sinusoidal	
E) azimuthality	
Answer: A	
Explanation: A)	
B)	
C)	
D)	
E)	

65) A GIS is a libra	ary of in	formation based o	n			65)	
A) satellites							
B) maps							
		y records stored o	n microfilm.				
D) stereosco							
E) manual o	artogra	phy.					
Answer: B							
Explanation:	A)						
	B)						
	C)						
	D)						
	E)						
66) The main purp		•		·		66) _	
		inents in an equal	area rendition				
B) to save in		• •					
		mpatible with air	photos				
		eoscopic view					
•	ve portr	ayal of the oceans					
Answer: A							
Explanation:	A)						
	B)						
	C)						
	D)						
	E)						
67) Which of the fo	allowing	n is NOT associate	d with Landsat im	220052		67)	
67) Which of the fo	_	ortion of the spectr		iages?		67) —	
B) thematic	•	•	uiii				
		s of data (pixels) p	oer image				
		nning system	der image				
		over many years					
Answer: A	atomitos	over many years					
Explanation:	۸)						
Ехріанаціон.	A)						
	B) C)						
	D)						
	E)						
	_)						
68) Most of the ma	ps in th	e text are drawn c	n projec	tions for an optimal por	trayal of	68)	
worldwide dis			,	, ,	,	´ –	
A) conforma	al	B) azimuthal	C) conic	D) gnomonic	E) equivalent		
Answer: E		·	,	, 3	, .		
Explanation:	A)						
Explanation	B)						
	C)						
	D)						
	E)						

A) first draw the line on a globe. B) note the magnetic declination. C) make the map both equivalent and conformal. D) interpolate between points of known value. E) color it purple. Answer: D Explanation: A) B) C) D) E) 70) The type of remote sensing which penetrates clouds at night for accurate terrain representation is A) thermal infrared B) Landsat
C) make the map both equivalent and conformal. D) interpolate between points of known value. E) color it purple. Answer: D Explanation: A) B) C) D) E) The type of remote sensing which penetrates clouds at night for accurate terrain representation is A) thermal infrared
D) interpolate between points of known value. E) color it purple. Answer: D Explanation: A) B) C) D) E) The type of remote sensing which penetrates clouds at night for accurate terrain representation is 70) A) thermal infrared
Answer: D Explanation: A) B) C) D) E) The type of remote sensing which penetrates clouds at night for accurate terrain representation is A) A) thermal infrared
Explanation: A) B) C) D) E) 70) The type of remote sensing which penetrates clouds at night for accurate terrain representation is A) thermal infrared
B) C) D) E) 70) The type of remote sensing which penetrates clouds at night for accurate terrain representation is A) thermal infrared
C) D) E) 70) The type of remote sensing which penetrates clouds at night for accurate terrain representation is A) thermal infrared
D) E) 70) The type of remote sensing which penetrates clouds at night for accurate terrain representation is A) thermal infrared
E) 70) The type of remote sensing which penetrates clouds at night for accurate terrain representation is A) thermal infrared
A) thermal infrared
A) thermal infrared
B) Landsat
·
C) passive microwave D) sonar
E) radar
Answer: E
Explanation: A)
В)
C)
D)
E)
71) Which of the following is considered a "perfect" map projection in terms of the amount of distortion 71)
associated with it?
A) cylindrical B) Mercator
C) conic
D) equivalent
E) none of the above
Answer: E
Explanation: A)
B) C)
D)
E)

	" imagery of some aerial photographs is also termed	72)
A) radar		
B) microwav C) sonar	7e	
D) color IR		
E) Landsat		
Answer: D		
Explanation:	A)	
_ηριαασ	B)	
	C)	
	D)	
	E)	
72) On Jargo scalo	mans, equivalence and conformity can be	73)
_	maps, equivalence and conformity can be eously approximated for small areas.	/3)
	d to be the same map property.	
	eously present.	
	led if the map is of high latitudes.	
E) any of the	, e	
Answer: A		
Explanation:	A)	
·	B)	
	C)	
	D)	
	E)	
74) Which of the fo	ollowing is an advantage of radar over all other remote sensing techniques?	74)
	erate at wavelengths shorter than 1 micrometer.	
	erate in clear weather.	
C) It can ope	erate at night.	
-	erate without using an electrical source.	
E) It can ope	erate at high altitude.	
Answer: C		
Explanation:	A)	
	B)	
	C)	
	D) E)	
	L)	
75) Which of the fo	ollowing is TRUE concerning GPS technology?	75)
	s useful but receivers are very expensive.	
	nology is freely available to the public.	
·	satellites are owned by a private corporation.	
	technology allows "perfect" maps to be drawn.	
	cannot pinpoint locations with an accuracy greater than 1 km.	
Answer: B	A)	
Explanation:	A)	
	B) C)	
	D)	
	E)	

76) On color infrar	ed phot	:ography, living დ	green vegetation wo	uld appear		76)
A) violet.		B) orange.	C) green.	D) red.	E) blue.	
Answer: D Explanation:	A) B) C) D) E)					
77) The most famo projection. A) Mollweid B) gnomoni C) Mercator D) sinusoida E) polyconid Answer: C Explanation:	de c	undoubtedly, mo	ost widely used of a	II the map projectio	ns is the	77)
78) The U.S. version A) 108 Answer: C Explanation:	A) B) C) D) E)	S is dependent of B) 2	n triangulation usin	g a network of D) 3	satellites E) 5	78)
	s from a et ay nfrared	otographic film, _. irborne cameras.		oven very valuable	for interpretation of	79)

80) Of the followin	g, which	is NOT considere	d a map essential?			80)
A) scale		B) legend	C) title	D) date	E) color	
Answer: E Explanation:	A) B) C) D) E)					
81) Which remote s A) Radar B) Multisped			strates universal app	olicability to most prob	olems?	81)
C) Landsat D) SPOT	oti ui ooui	9				
E) none of the	ne above					
Answer: E Explanation:	A)					
	B) C) D) E)					
			he 1970s, is now kno		E) TIDOS	82)
A) Landsat Answer: A Explanation:	A) B) C) D) E)	B) GOES	C) EOS	D) AVHRR	E) TIROS	
83) The scale of one A) 1:63,360 B) 1:1,000,000 C) 1:100,000 D) 1:10,000 E) 1:250,000		uals one mile is	in a represer	ntative fraction.		83)
Answer: A Explanation:	A) B) C) D) E)					

84) Which remote	sensing systems sense the longest wavelengths?	84)
	infrared imaging	
C) color pho	d white photography	
D) Landsat	otography	
E) microwa	ve imaging	
Answer: E		
Explanation:	A)	
	B)	
	C)	
	D) E)	
	L)	
85) The explanation	ons of symbols used on a map should be contained in	85)
A) the title.		
B) the scale		
C) the space D) the legen	e under the north arrow.	
E) the data		
Answer: D	30 0 1 00.	
Explanation:	A)	
	B)	
	C)	
	D)	
	E)	
86) Central merid	ians are essential features on a projection.	86)
86) Central merid A) small sca	ians are essential features on a projection. ale	86)
A) small sca B) large sca	ale le	86)
A) small sca B) large sca C) interrupt	ale le ted	86)
A) small sca B) large sca C) interrupt D) perfectly	ale le ted y conformal	86)
A) small sca B) large sca C) interrupt D) perfectly E) Mercator	ale le ted y conformal	86)
A) small sca B) large sca C) interrupt D) perfectly E) Mercator Answer: C	ale le ted y conformal	86)
A) small sca B) large sca C) interrupt D) perfectly E) Mercator	ale le ted y conformal A)	86)
A) small sca B) large sca C) interrupt D) perfectly E) Mercator Answer: C	ale le ted y conformal	86)
A) small sca B) large sca C) interrupt D) perfectly E) Mercator Answer: C	A) B) C) D)	86)
A) small sca B) large sca C) interrupt D) perfectly E) Mercator Answer: C	ale le ted y conformal A) B) C)	86)
A) small sca B) large sca C) interrupt D) perfectly E) Mercator Answer: C Explanation:	ale le ted y conformal A) B) C) D) E)	
A) small sca B) large sca C) interrupt D) perfectly E) Mercator Answer: C Explanation:	ale le ted y conformal A) B) C) D) E) , date, and legend on a map are known as	86)
A) small sca B) large sca C) interrupt D) perfectly E) Mercator Answer: C Explanation:	ale le ted y conformal A) B) C) D) E) , date, and legend on a map are known as phic license.	
A) small sca B) large sca C) interrupt D) perfectly E) Mercator Answer: C Explanation: 87) Together, title, A) cartograf B) map esse C) necessary	ale le ted y conformal A) B) C) D) E) , date, and legend on a map are known as phic license. entials. y information.	
A) small sca B) large sca C) interrupt D) perfectly E) Mercator Answer: C Explanation: 87) Together, title, A) cartogral B) map esse C) necessary D) optional	ale le ted y conformal A) B) C) D) E) , date, and legend on a map are known as phic license. entials. y information. pieces.	
A) small sca B) large sca C) interrupt D) perfectly E) Mercator Answer: C Explanation: 87) Together, title, A) cartogral B) map esse C) necessary D) optional E) marginal	ale le ted y conformal A) B) C) D) E) , date, and legend on a map are known as phic license. entials. y information.	
A) small sca B) large sca C) interrupt D) perfectly E) Mercator Answer: C Explanation: 87) Together, title, A) cartograp B) map esse C) necessary D) optional E) marginal Answer: B	ale le ted y conformal A) B) C) D) E) date, and legend on a map are known as phic license. entials. y information. pieces. I information.	
A) small sca B) large sca C) interrupt D) perfectly E) Mercator Answer: C Explanation: 87) Together, title, A) cartogral B) map esse C) necessary D) optional E) marginal	ale le ted y conformal A) B) C) D) E) date, and legend on a map are known as phic license. entials. y information. pieces. I information. A)	
A) small sca B) large sca C) interrupt D) perfectly E) Mercator Answer: C Explanation: 87) Together, title, A) cartograp B) map esse C) necessary D) optional E) marginal Answer: B	ale le ted y conformal A) B) C) D) E) , date, and legend on a map are known as phic license. entials. y information. pieces. I information. A) B)	
A) small sca B) large sca C) interrupt D) perfectly E) Mercator Answer: C Explanation: 87) Together, title, A) cartograp B) map esse C) necessary D) optional E) marginal Answer: B	ale le ted y conformal A) B) C) D) E) date, and legend on a map are known as phic license. entials. y information. pieces. I information. A)	

88) is wh	nat enables aerial photographs to be viewed in "stereo."	88)	
A) Magnific	ation		
B) Digital ir	mage processing		
C) Color			
D) Overlap			
E) Varying	tones		
Answer: D			
Explanation:	A)		
'	B)		
	c)		
	D)		
	E)		
		•	
	ollowing has been accomplished using the new geopositioning technology?	89) _	
	oor mapping		
	lisaster damage assessment		
C) volcano			
	ke prediction		
E) all of the	above		
Answer: E			
Explanation:	A)		
	B)		
	C)		
	D)		
	E)		
90) Which of the f	ollowing is the acronym for the system of U.S. Department of Defense satellites	90)	
	d to establish exact locations on Earth?	⁷⁰ –	
A) EOS	to establish exact locations on Earth.		
B) GPS			
C) Landsat			
D) Color inf	irared		
E) GIS	Turcu		
Answer: B			
Explanation:	A)		
Ελβιαπατίθη.	B)		
	C)		
	D)		
	E)		
	L <i>)</i>		

91) A major disadvantage of oblique aerial photographs as compared to vertical air photographs is that	91)
A) they are usually classified by the government B) shadows make identification of Earth features impossible C) the view is not familiar D) they are more expensive E) accurate measurement is more difficult Answer: E Explanation: A) B) C) D) E)	
92) Misuse of the Mercator projection is a result of A) inaccurate projection of latitude and longitude. B) latitudinal differences in scale. C) the curved loxodromes. D) the fact that it is so old. E) the Cold War.	92)
Answer: B Explanation: A) B) C) D) E)	
 93) Which of the following choices represents a technology into which the other choices can be used as inputs? A) Field data B) GIS C) GPS D) Aerial photography E) Landsat imagery 	93)
Answer: B Explanation: A) B) C) D) E)	

94) A geometrical	ry corrected map consisting of aerial photographs is known as a(ii) map.	94)
A) large-sca	ale	·
B) projected		
C) orthopho		
D) Mercator		
-		
E) color infr	ared	
Answer: C		
Explanation:	A)	
	B)	
	C)	
	D)	
	E)	
95) Which of the fe	ollowing is most closely identified with "multispectral remote sensing"?	95)
A) color infr	rared photography	
B) Landsat		
-	nfrared scanning	
-	· · · · · · · · · · · · · · · · · · ·	
D) microwa		
E) radar im	aging	
Answer: B		
Explanation:	A)	
	B)	
	C)	
	D)	
	E)	
60.11.11		0.0
	photography, Landsat imagery is interpreted through	96)
A) film		
B) remote s	ensing	
C) digital in	nage processing	
D) stereosco		
E) all of the		
·	above	
Answer: C		
Explanation:	A)	
	B)	
	C)	
	D)	
	<i>D</i>)	
	E)	
	E)	
07) Conformal ma		07)
	E) ps greatly distort of continents in higher latitudes.	97)
A) sizes		97)
A) sizes B) shapes	ps greatly distort of continents in higher latitudes.	97)
A) sizes	ps greatly distort of continents in higher latitudes.	97)
A) sizes B) shapes	ps greatly distort of continents in higher latitudes. tude	97)
A) sizes B) shapes C) the longi D) the latitu	ps greatly distort of continents in higher latitudes. tude ide	97)
A) sizes B) shapes C) the longi D) the latitu E) the numl	ps greatly distort of continents in higher latitudes. tude ide	97)
A) sizes B) shapes C) the longi D) the latitu E) the numl Answer: A	ps greatly distort of continents in higher latitudes. tude ide oer	97)
A) sizes B) shapes C) the longi D) the latitu E) the numl	ps greatly distort of continents in higher latitudes. tude ide oer A)	97)
A) sizes B) shapes C) the longi D) the latitu E) the numl Answer: A	ps greatly distort of continents in higher latitudes. tude ide per A) B)	97)
A) sizes B) shapes C) the longi D) the latitu E) the numl Answer: A	ps greatly distort of continents in higher latitudes. tude ide oer A)	97)
A) sizes B) shapes C) the longi D) the latitu E) the numl Answer: A	ps greatly distort of continents in higher latitudes. tude ide per A) B)	97)

98) is tl	ne type of remote sensing imagery best suited to use at night.	98)
	nophoto map	
B) color i		
	al infrared	
D) polaro		
E) visible		
Answer: C		
Explanation		
	B)	
	C)	
	D) E)	
	C)	
99) Every map	projection consists of an orderly arrangement of	99)
	ographic grid.	
B) scale.		
C) legend	.	
D) interru	uptions.	
E) title.		
Answer: A		
Explanation	: A)	
	B)	
	C)	
	D)	
	E)	
100) Man project	ions are mainly derived	100)
	erial reconnaissance	
B) mathe		
C) by ana		
D) by osn		
E) from i	nterpolation	
Answer: B		
Explanation	: A)	
	B)	
	C)	
	D)	
	E)	
101) The basis in	agging instrument in the Landsat series of satellites is known as the	101)
A) camer	naging instrument in the Landsat series of satellites is known as the	101)
	tic mapper.	
C) pixel.	по таррот.	
D) radar :	screen.	
E) Skylab		
Answer: B		
Explanation	: A)	
1	B)	
	Ć)	
	D)	
	E)	

102) is th	e science of obtaining reliable measurements from photographs.	102)	
A) Remote	sensing		
B) Photogra	ammetry		
C) Satellite imaging			
D) Orthoph	otomapping		
E) Sonar			
Answer: B			
Explanation:	A)		
•	В)		
	C)		
	D)		
	E)		
103) A line connect	ing points with equal precipitation is known as an	103)	
A) isohyet			
B) isotherm	1		
C) isoneph			
D) isobar			
E) isogonic	line		
Answer: A			
Explanation:	A)		
	B)		
	C)		
	D)		
	E)		
A) the num B) how acc C) how acc	e between any two different map projections must always be ber of degrees from the Equator to the North Pole. urately relative sizes are portrayed. urately shapes are portrayed. geographic grid is arranged.	104)	
Answer: D			
Explanation:	A)		
	B)		
	C)		
	D)		
	E)		
105)		405)	
	e "major dilemma" of mapmaking explained by the text. nality versus scale	105)	
	rsus equivalence		
	ersus azimuthal projections		
	ence versus conformality		
E) The incl	usion of too much information on a map		
Answer: D			
Explanation:	A)		
	В)		
	C)		
	D)		
	E)		

106) How much area is shown in an entire Landsat image?	106)
A) a few square centimeters	
B) approximately half of the Earth	
C) a few square meters	
D) a few thousand square kilometers	
E) a few square kilometers	
Answer: D	
Explanation: A)	
В)	
C)	
D)	
E)	
HORT ANSWER. Write the word or phrase that best completes each statement or answers the questi	ion.
107) One is able to view overlapping vertical aerial photographs in "3 dimensions" using a	107)
device called a	
Answer: stereoscope	
Explanation:	
•	
,	108)
not in physical contact with the object under study.	
Answer: Remote sensing	
Explanation:	
	100)
109) A(n) scale is a type of map scale which makes use of a line marked off in graduated distances.	109)
G C C C C C C C C C C C C C C C C C C C	
Answer: graphic	
Explanation:	
110) The main problem with conformal projections is that	110)
Answer: areas must be distorted to show proper shapes	
Explanation:	
_Apranation:	
111) micrometers is a wavelength of visible light (ANY of the wavelengths will do).	111)
Answer: Any wavelength between .36 and .72 micrometers is acceptable.	
Explanation:	
· · · · · · · · · · · · · · · · · · ·	112)
water bodies.	
Answer: The near infrared	
Explanation:	
113) Title, date, and legend are three of the five (2 words).	113)
Answer: map essentials	, <u> </u>
Explanation:	
L	
114) The representative fraction equivalent to the statement "one inch equals one mile" is	114)
·	
Answer: 1:63,360	
Explanation:	

115		ojections which causes areas to be portrayed at the same	115)
	relative sizes they are on the globe.		
	Answer: Equivalence		
	Explanation:		
116) The is the position from w	vhich an aerial photograph is taken.	116)
	Answer: air station or camera station	on	
	Explanation:		
117) A (2 words) is another nai	me for a loxodrome.	117)
	Answer: rhumb line Explanation:		
TRUE/F	ALSE. Write 'T' if the statement is tr	rue and 'F' if the statement is false.	
118) A globe is a better model of Earth as	s a whole than any map.	118)
	Answer: True False		
	Explanation:		
119) On Mercator projection, Greenland	's size relative to the United States is greatly exaggerated.	119)
	Answer: True False		
	Explanation:		
120) Microwave remote sensing is associ	iated with wavelengths much shorter than those of visible	e light. 120)
	Answer: True 🕑 False		
	Explanation:		
121) A globe maintains the properties of	conformality and equivalence.	121)
	Answer: True False		
	Explanation:		
122) SYMAP was the first widely used a	utomated cartography software.	122)
	Answer: True False		
	Explanation:		
123) There is no possible way to avoid d	istortion on a map projection.	123)
	Answer: True False		
	Explanation:		
124) "Equivalency" in map projections m	neans having no scale changes over the entire map.	124)
	Answer: True 🕑 False		
	Explanation:		
125) GPS was originally developed by th	ne U.S. Department of Defense to guide missiles.	125)
	Answer: True False		
	Explanation:		
126) The scale of a map can never be con	nstant all over the entire map.	126)
	Answer: True False		
	Explanation.		

127)	Radar imagery is espec	cially appropriate for terrain analysis.	127)
	Answer: True Explanation:	False	
128)	Conformality and equi	ivalence are, in general, mutually exclusive properties.	128)
	Answer: True Explanation:	False	
129)	A Mercator map show	s loxodromes as straight lines.	129)
	Answer: True Explanation:	False	
130)	Satellites in the SPOT a	and Landsat series carry identical sensors.	130)
	Answer: True CEXPlanation:	False	
131)	All conformal projection they do on the globe.	ons have meridians and parallels crossing each other at right angles, just as	131)
	Answer: True Explanation:	False	
132)	Interrupted projections	s are neither conformal nor equidistant.	132)
	Answer: True Explanation:	False	
133)	Landsat images are ur government.	navailable for public use owing to their "top secret" classification by the U.S.	133)
	Answer: True CExplanation:	False	
134)	The Mercator projection	on is very close to maintaining equivalence in low latitudes.	134)
	Answer: True Explanation:	False	
135)	All map projections ha	ove the basic property of equivalence.	135)
	Answer: True Explanation:	False	
136)	Because they are shape information.	ed like the real Earth, globes are usually the best way to convey Earth	136)
	Answer: True Explanation:	False	
137)	The primary reason for	r use of a stereoscope is to magnify the photos under study.	137)
	Answer: True C	False	

138)	A map which showed y scale map.	your classroom building as being 6 inches long on the map would be a large	138) -	
	Answer: True Explanation:	False		
139)	On a Mercator projection	on, the North Pole would be represented by a line as long as the Equator.	139)	
	Answer: True Explanation:	False		
140)	The main useful trait of	color infrared photography is its depiction of the states of vegetation.	140)	
	Answer: True Explanation:	False		
141)	The original purpose of	the Mercator projection was for navigation.	141)	
	Answer: True Explanation:	False		
142)	Thermal infrared image	ery is the most useful type of image for detecting different vegetation types.	142)	
	Answer: True © Explanation:	False		
143)	Maps are inherently ina	accurate because of their attempt to depict the curved Earth on a flat surface.	143)	
	Answer: True Explanation:	False		
144)	The earliest aerial photo	ographs were taken from balloons.	144)	
	Answer: True Explanation:	False		
145)		n the newer Landsat satellites is a great improvement because it increases in each spectral band used.	145) _	
		False		
146)	A map is usually much	smaller than the part of the Earth's surface it represents.	146)	
	Answer: True Explanation:	False		
147)	There are major discrep	pancies between the true shape of the Earth and that of a globe.	147)	
	Answer: True © Explanation:	False		
148)	The Mercator projection distorted in area on this	n should not be used to show tropical areas because they are greatly sprojection.	148) _	
	Answer: True	False		

149	The maps in your p produced using des	physical geography textbook are an example of automated cartography and were sktop computers.	149)
	Answer: True Explanation:	False	
150) It is important that	all maps have their meridians parallel to each other as they extend east to west.	150)
	Answer: True Explanation:	False	
151) Images from radar	sensors can be acquired only during the daytime.	151)
	Answer: True Explanation:	False	
152	e) A map at large scal	e generally shows a large portion (continental size or larger) of Earth's surface.	152)
	Answer: True Explanation:	False	
153) An example of a lar	ge-scale map is a classroom wall map of the world.	153)
	Answer: True Explanation:	False	
154) The one inch to the	mile scale map is a small scale map.	154)
	Answer: True Explanation:	False	
155	i) Choosing the appro depiction of Earth f	opriate equivalence projection will result in a map with no distortion in its features or areas.	155)
	Answer: True Explanation:	False	
156) A major advantage	in using oblique aerial photography is the easy measurement of Earth features.	156)
	Answer: True Explanation:	False	
157) At a scale of 1:10,00 ground.	00, the distance of an inch on a map would represent more than a mile on the	157)
	Answer: True Explanation:	False	
ESSAY.	Write your answer i	n the space provided or on a separate sheet of paper.	
158	Explain how the pr Answer:	operties of conformality and equivalence always pose a dilemma to the mapmake	r.
159) Explain how the GI Answer:	obal positioning system operates to locate your position within a few meters.	

160)	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:

161) 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:

Answer Key Testname: C2

1) D

2) C

3) B

4) A

5) C 6) C 7) D

8) D

9) C

10) A

11) C

12) A

13) E 14) D

15) C

16) E

17) C

18) B

19) B

20) C

21) A

22) C

23) E

24) A

25) B

26) C

27) E

28) E

29) C

30) C

31) A

32) E 33) B

34) A

35) E

36) D

37) D

38) C

39) C

40) A

41) A

42) A

43) C

44) A

45) A

46) E 47) A

48) B

49) A

50) E

Answer Key Testname: C2

51) B

52) A

53) E

54) C

55) B

56) A

57) E

58) A

59) E

60) D

61) C

62) B

02, 2

63) E

64) A

65) B

66) A 67) A

68) E

69) D

70) E

71) E

72) D

73) A

74) C

75) B 76) D

77) C

78) C

79) E

7 /) [

80) E 81) E

82) A

83) A

84) E

85) D

86) C

87) B

88) D

89) E

90) B

91) E 92) B

93) B

94) C

95) B

96) C

97) A 98) C

99) A

100) B

Answer Key

Testname: C2

- 101) B
- 102) B
- 103) A
- 104) D
- 105) D
- 106) D
- 107) stereoscope
- 108) Remote sensing
- 109) graphic
- 110) areas must be distorted to show proper shapes
- 111) Any wavelength between .36 and .72 micrometers is acceptable.
- 112) The near infrared
- 113) map essentials
- 114) 1:63,360
- 115) Equivalence
- 116) air station or camera station
- 117) rhumb line
- 118) TRUE
- 119) TRUE
- 120) FALSE
- 121) TRUE
- 122) TRUE
- 123) TRUE
- 124) FALSE
- 125) TRUE
- 126) TRUE
- 127) TRUE
- 128) TRUE
- 129) TRUE
- 130) FALSE
- 131) TRUE
- 132) FALSE
- 133) FALSE
- 134) TRUE
- 135) FALSE
- 136) FALSE
- 137) FALSE
- 138) TRUE
- 139) TRUE
- 140) TRUE
- 141) TRUE
- 142) FALSE 143) TRUE
- 144) TRUE
- 145) FALSE
- 146) TRUE
- 147) FALSE
- 148) FALSE
- 149) TRUE
- 150) FALSE

Answer Key Testname: C2

151) FALSE

152) FALSE

153) FALSE

154) FALSE

155) FALSE

156) FALSE

157) FALSE

158)

159)

160)

161)