https://selldocx.com/products/test-bank-introduction-to-geographic-information-systems-9e-chan

Stude	ent name:		
1) online	Which of the following is the standard projection for mapping?		
			C) Equidistant
	A) Lambert conformal conic B) Mercator	conic	D) Web Mercator
2)	The secant case means that a cylindrical projection has line(s) of tangency:		
	A) 3		B) 1 C) 2
3) the cer	Explain the difference between the standard line and ntral line.		
4)	Which of the following statements is true?		
E-W of in the	A) Meridians are lines for measuring location in the frection, and parallels are lines for measuring location in W direction. B) Meridians are points for measuring location in the firection, and parallels are points for measuring location N-S direction. C) Meridians are points for measuring location in the frection, and parallels are points for measuring location in the frection, and parallels are points for measuring location	lines f location directifications f	E-W direction. D) Meridians are for measuring on in the E-W on, and parallels are for measuring on in the N-S on.
5)	When converted from DMS to DD units, 46°30'00''	will re	ad:

		C) 46.3°
	A) 46.7°	D) None of these is
	B) 46.5°	correct
6)	Which datum are GPS readings based on?	
,	Ç	
		C) NAD27
	A) CORS96	D) WGS84
	B) NAD83	
7)	What is Web Mercator?	
8)	Describe how on-the-fly projection works.	
9)	The Geographic Coordinate Data Base (GCDB) is a	
databas	se based on the:	
		D) None of these is
	A) SDC (State Plane Coordinate) system	D) None of these is
	A) SPC (State Plane Coordinate) system D) LTM (Universal Transversa Mercetan) Crid system	correct
	B) UTM (Universal Transverse Mercator) Grid system	
	C) PLSS (Public Land Survey System)	

defining a coordinate syste	following three methods for em: select, import, or create a n the difference between select and	import a coordinate system.
shifts of point positions in o true	rom NAD27 to NAD83, horizontal the conterminous United States can	be as much as 100 meters (328 ft).
, -	ecific example the importance of system in GIS operations.	
14) Name the ellipsoid NAD83, and GPS, respect	ls that are the basis for NAD27, ively.	
15) All layers to be use align spatially.	ed together in a GIS operation must	⊙ true ⊙ false

16)	What is a map projection?	
17)	Which of the following spheroids is ground-measured, than satellite-determined?	
	A) GRS80	B) WGS84 C) Clarke1866
18) as a pr	Which of the following coordinate systems is treated edefined coordinate system in ArcGIS?	
	A) STP (State Plane) B) all of these are correct C) Both UTM and STP	D) UTM (Universal Transverse Mercator) E) IDTM (Idaho Transverse Mercator)
19) of:	The central meridian of a UTM zone has a scale factor	
	A) 1 B) None of these is correct	C) 0.9 D) 0.9996
20) meridi	Which of the following statements is not true about a an with a scale factor of 1?	
	A) There is no projection distortion along the	meridian. B) None of these is

COT	raci
-con	reci

correct	C) The meridian must be a standard meridian. D) The meridian must be the line of 0° longitude.	
21)	A conformal projection preserves the property of:	
	A) relative size B) local shapes	C) none of these is correct D) distances
22)	The center of a map projection is determined by the:	
	A) standard parallel and central meridianB) central parallel and central meridianC) standard parallel and standard meridian	D) standard meridian and central parallel
23) (State]	The two common map projections used for the SPC Plane Coordinate) system are:	
	A) transverse Mercator and Lambert conformal conic	C) Lambert conformal conic and Albers conic equal-area
	B) transverse Mercator and Albers conic equal-area	

24) How does an ellipsoid differ from a sphere in approximating the shape and size of the Earth?

What does it mean by "reprojection"? 25)

Version 1 6

26)	How can "datum shift" affect GIS work?
	Explain the difference between NAD83 and 8(HARN)
28)	What is a horizontal datum?
-	Briefly explain how a UTM zone is defined in terms entral meridian, standard meridian, and scale factor.

maps	A) Maps based on NAD83 can register spatially with based on NAD27. B) All of these are correct	D) NAD83 is based on a satellite-determined spheroid. E) NAD83 is a
	C) Both NAD83 is newer and NAD83 is based on.	newer datum than NAD27.
31)	Which coordinate does a false easting apply to?	
	A) Y	B) X
32) origina	An X-shift of -500,000 means you add 500,000 to the al X coordinate value.	
	truefalse	
33)	Each UTM zone covers degrees in longitude:	6) 4
	A) 7 B) 5	C) 4 D) 6
34) proper	List the four types of map projections by the preserved ty.	

B) positive

- A) negative
- **36)** Which of the following statements is true?
- A) Map projection and coordinate system are unrelated.
 - B) A map projection is based on a coordinate system.

C) A coordinate system is based on a map projection.

Answer Key

Test name: Introduction to Geographic

Information Systems Author: Chang 9th ch2

- 1) A
- 2) C
- 4) D
- 5) B
- 6) D
- 9) C
- 10) TRUE
- 12) TRUE
- **15) TRUE**
- 17) C
- 18) C
- 19) D
- 20) D
- 21) B
- 22) B
- 23) A
- 30) C
- 31) B

Version 1

- 32) FALSE
- 33) D
- 35) A
- 36) C