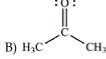
Chapter 12 Practice Questions
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

1) Which statement a	bout surface tension is	FALSE?							
A) Increased intermolecular forces increase surface tension. B) Items with densities lower than water will sink due to surface tension. C) Liquids tend to minimize their surface area. D) Molecules on the surface of the liquid have fewer molecules to interact with. E) All of the above statements are true.									
					2) The rate of vanoris	zation of a liquid can be	increased by:		
					_	he surface area	mercused by.		
						he temperature			
					9	he strength of the interi	molecular forces		
A) 1 only	B) 2 only	C) 3 only	D) 1 and 2 only	E) 2 and 3 only					
		ng vigorously to a large	e pot of water that is boiling	g gently. Which					
statement is TRUE		an one hane							
	boiling at the same ten	-	o alacres the motion on the case						
			e above the pot in each case	.					
_	t is boiling at higher ter	•	-						
E) none of the a	t is boiling at a higher to	emperature man me sm	ian pot.						
E) Hone of the a	bove								
4) What is the heat of	· - vanorization(kI/mol) i	f it takes 3.452 Lof heat	to completely vaporize 2.6	8 males of the liqui					
at its boiling point	_	1 it takes 5,452 j of fleat	to completely vapolize 2.00	o moles of the fiquit					
A) 12.2	•								
B) 1.29									
C) 1288									
D) 0.776									
E) none of the a	bove								
	ional heat to a solid in ϵ	equilibrium with its liqu	uid at the melting point, the	e thermal energy					
added is used to:									
A) change solid	•								
	quid back to solid.								
	e intermolecular forces	that hold the solid toge	ther.						
D) expand the se									
E) raise the tem	perature of the solid ab	ove its melting point.							
6) Which intermolect	ılar force is present in a	ll molecules and atoms	2						
A) X-forces	ital force is present in a	in molecules and atoms	•						
B) dispersion fo	irces								
C) dipole-dipol									
D) hydrogen bo									
E) none of the a									
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- 7) The ability of sodium chloride to mix with water is most likely due to:
 - A) dipole-dipole force
 - B) ion-dipole force
 - C) dispersion force
 - D) hydrogen bonding
 - E) none of the above
- 8) Which substance below has dipole-dipole forces?
 - A) F₂
 - B) CO₂
 - C) H₂S
 - D) CH₄
 - E) none of the above
- 9) Which molecule below has hydrogen bonding?
 - A) CH₃CH₂OH
 - B) HCl
 - C) H₂
 - D) CH₄
 - E) all of the above
- 10) Which intermolecular forces are found in CCl₄?
 - A) X-forces
 - B) hydrogen bonding
 - C) dispersion forces
 - D) dipole-dipole forces
 - E) none of the above
- 11) Dry ice (solid CO₂) is which type of solid?
 - A) metallic atomic solid
 - B) ionic solid
 - C) covalent atomic solid
 - D) molecular solid
 - E) nonbonding atomic solid
- 12) Which compound will have the highest boiling point?
 - A) CH₄



- C) CH₃CH₂OH
- D) CH₃CH₃
- E) CH₃CH₂CH₃

Answer Key
Testname: PRACTICEQ_CH12

- 1) B 2) D 3) A 4) B 5) A 6) B 7) B 8) C 9) A 10) C 11) D 12) C