1. Which substance is an electrolyte?	10. Which laboratory test result can be used to determine if KCl(s) is an electrolyte?
 A) CCl4 B) C2H6 C) HCl D) H2O 2. Which substance, when dissolved in water, forms a solution that conducts an electric current? 	 A) pH of KCl(aq) B) pH of KCl(s) C) electrical conductivity of KCl(aq)
A) C_2H_5OH C) $C_{12}H_{22}O_{11}$ B) $C_6H_{12}O_6$ C) $C_{12}H_{22}O_{11}$ D) CH_3COOH 3. A substance is classified as an electrolyte because A) it has a high melting point B) it contains covalent bonds C) its aqueous solution conducts an electric current D) its aqueous solution has a pH value of 7 4. Which substance is an electrolyte? A) $C_6H_{12}O_6(s)$ B) $C_2H_5OH(\ell)$ C) NaOH(s) D) $H_2(g)$ 5. Which two compounds are electrolytes? A) KOH and CH_3COOH B) KOH and C_5H_{12} C) CH_3OH and CH_3COOH	 b) electrical conductivity of KCl(a) D) electrical conductivity of KCl(s) 11. Which two compounds are electrolytes? A) C₆H₁₂O₆ and CH₃CH₂OH B) C₆H₁₂O₆ and HCl C) NaOH and HCl D) NaOH and CH₃CH₂OH 12. As water is added to a 0.10 M NaCl aqueous solution, the conductivity of the resulting solution A) decreases because the concentration of ions decreases B) decreases, but the concentration of ions remains the same C) increases, but the concentration of ions remains decreases D) increases, but the concentration of ions remains
 D) CH₃OH and C₅H₁₂ 6. Which compound is an electrolyte? A) CH₃CHO B) CH₃OCH₃ C) CH₃COOH D) CH₃CH₂CH₃ 	the same13. Which compound dissolves in water to form an aqueous solution that can conduct an electric current?
 7. Which compounds can be classified as electrolytes? A) alcohols B) alkynes C) organic acids D) saturated hydrocarbons 8. Which compound is an electrolyte? A) CCl₄ B) CH₃OH C) C₆H₁₂O₆ D) Ca(OH)₂ 9. Which compound is an electrolyte? 	 A) CC14 B) C2H5OH C) CH3COOH D) CH4 14. Which of the following aqueous solutions is the best conductor of electricity? A) 0.10 M CH3OH B) 1.0 M CH3OH C) 0.10 M NaOH D) 1.0 M NaOH 15. Which aqueous solution is the best conductor of an electrical current? A) 0.01 M CH3OH B) 0.01 M KOH C) 0.1 M CH3 OH D) 0.1 M KOH
A) buteneB) propaneC) dimethyl etherD) methanoic acid	 16. Which formula represents an electrolyte? A) CH₃OCH₃ B) CH₃OH C) CH₃COOH D) C₂H₅CHO

- 17. Which pair of formulas represents two compounds that are electrolytes?
 - A) HCl and CH₃OH
 - B) HCl and NaOH
 - C) C5H12 and CH3OH
 - D) C₅H₁₂ and NaOH
- 18. Which compound is an electrolyte?

A)	C6H12O6	B)	$CaCl_2$
C)	CH ₃ OH	D)	CCl ₄

- 19. Based on Reference Table *F*, which of these salts is the best electrolyte?
 - A) sodium nitrate
 - B) magnesium carbonate
 - C) silver chloride
 - D) barium sulfate
- 20. Which 0.1 M solution contains an electrolyte?

A) C ₆ H ₁₂ O ₆ (aq)	B) CH ₃ COOH(aq)
C) CH ₃ OH(aq)	D) CH3OCH3(aq)

21. Which species can conduct an electric current?

A) NaOH(s)	B) CH ₃ OH(aq)
C) H ₂ O(s)	D) HCl(aq)

22. A substance that conducts an electrical current when dissolved in water is called

A) a c	atalyst	B)	a met	allo	oid	
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- C) a nonelectrolyte D) an electrolyte
- 23. Which compound is a nonelectrolyte?

A) HNO3	B) H ₂ SO ₄
C) NaOH	D) CH ₃ OH

24. Based on Reference Table *F*, which salt is the strongest electrolyte?

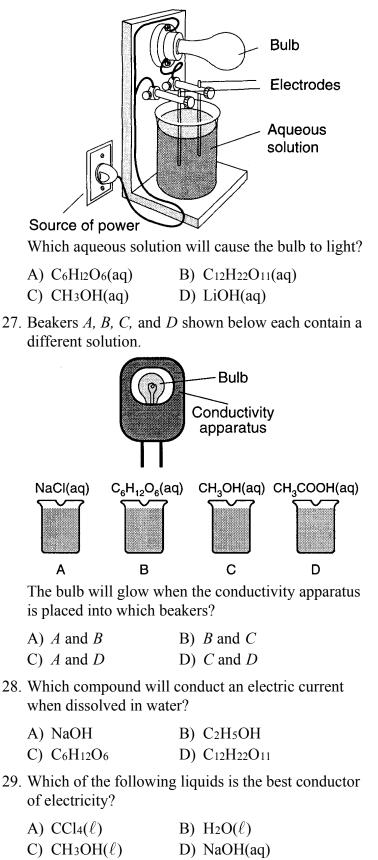
A) CaCO3	B) Na ₂ SO ₄
C) AgCl	D) $Zn_3(PO_4)_2$

25. An example of a nonelectrolyte is

A)	C6H12O6(aq)	B) K ₂ SO ₄ (aq)
~		

C) NaCl(aq) D) HCl(aq)

26. The diagram below shows an apparatus used to test the conductivity of various materials.



- 30. Water containing dissolved electrolyte conducts electricity because the solution contains mobile
 - A) electrons B) molecules
 - C) atoms D) ions