ADDITIONAL QUESTIONS IN ELECTROCHEMISTRY(CET)

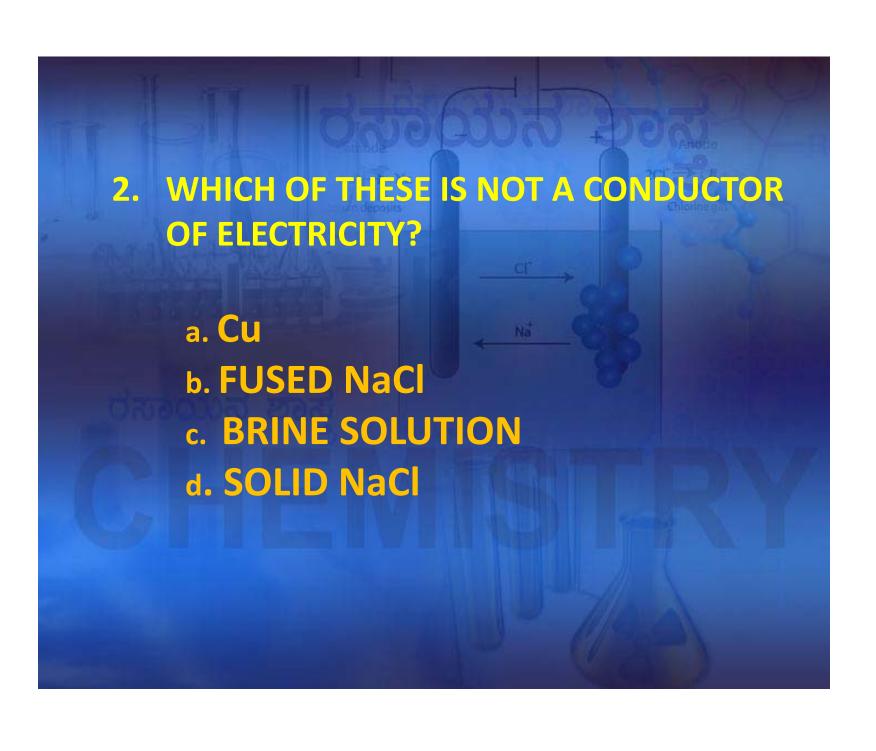
1. QUANTITY OF ELECTRICITY
WHICH LIBERATES 8 GRAMS
OF OXYGEN FROM ACIDIFIED
WATER IS

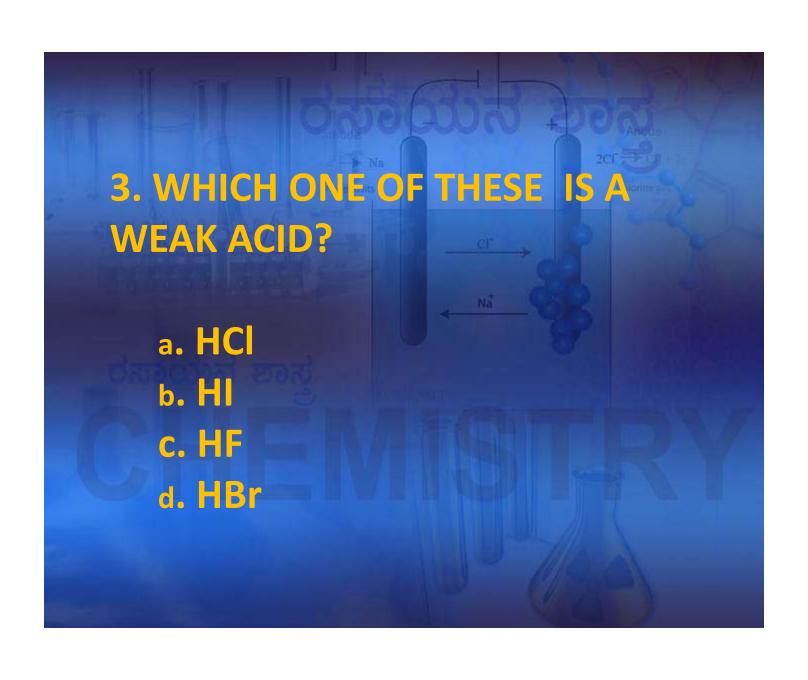
a. ONE VOLT

b. ONE AMPERE

c.ONE COULMB

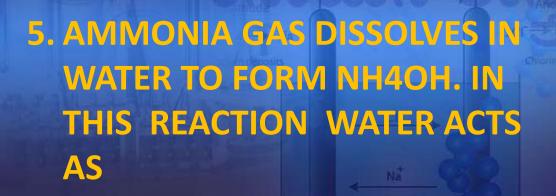
d.ONE FARADAY





4. THE SPECIFIC CONDUCTANCE OF A O.1 M SOLUTION OF AN ELECTROLYTE IS 6.3 Ohm/m. THE MOLAR CONDUCTANCE IN Sm².mol⁻¹ IS

- a. 630x10-4
- b. 315x10-4
- c. 100x10-4
- d. 6300x10-4



- a. A BASE
- b. AN ACID
- c. A CONJUGATE BASE
- d. NON-POLAR SOLVENT

6. THE DEGREE OF IONISATION OF AN ELECTROLYTE DEPENDS ON

- a. THE SIZE OF THE SOLUTE PARTICLES
- b. THE NATURE OF SOLUTE MOLECULES
- c. THE SIZE OF SOLVENT MOLECULES
- d. THE AMOUNT OF ELECTRICITY PASSED



- a. A LOW VALUE OF DIELECTRIC CONSTNAT AND POLARITY.
- b. A HIGH VALUE OF DIELECTRIC CONSTANT AND POLARITY
- c. A HIGH OF DIELECTRIC CONSTNAT AND LOW VALUE OF POLARITY
- d. A LOW VALUE OF DIELECTRIC

 CONSTANT AND HIGH VALUE OF

 POLARITY

8. ELECTROCHEMICAL EQUIVALENT OF COPPER IS 0.0003296 g COULOMB-1. THE AMOUNT OF COPPER DEPOSITED BY A CURRENT OF 0.5 ampere FLOWING FOR 5hrs 33min 20sec IS

- a. 3.296 g
- b. 6.592 g
- c. 0.3296 g
- d. 1.648 g



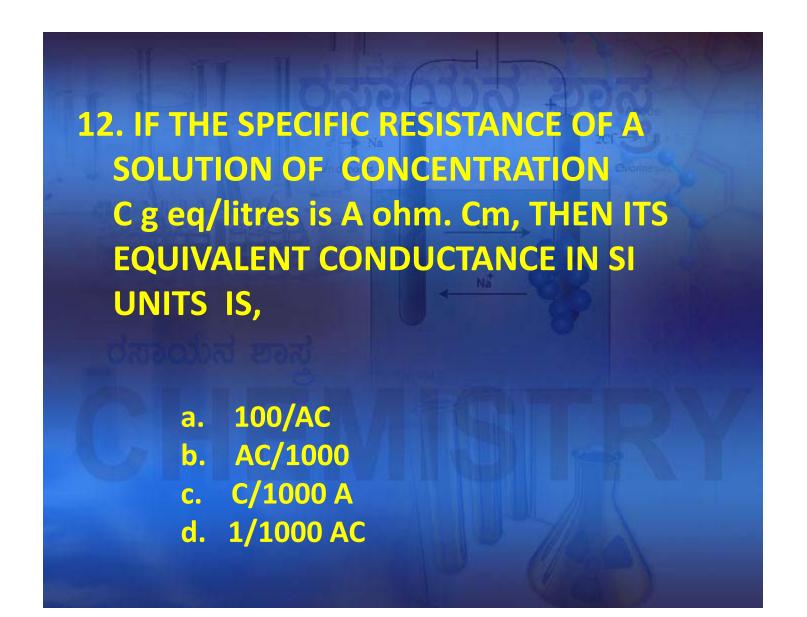
- a. EXCEEDS 1.0
- b. IS EQUAL TO 1.0
- c. IS EQUAL TO 0.5
- d. IS ZERO

10. THE AMOUNT OF SILVER DEPOSITED ON PASSING 2.0 FARADAY OF ELECTRICITY THROUGH AN AQUEOUS SOLUTION OF AgNO3 IS

- a. 54.0g
- b. 108.0g
- c. 216.0g
- d. 320.0g



- a. O.1M NaCl
- b. O.I M Na₂SO₄
- c. O.I M HCN
- d. O.I M HCl



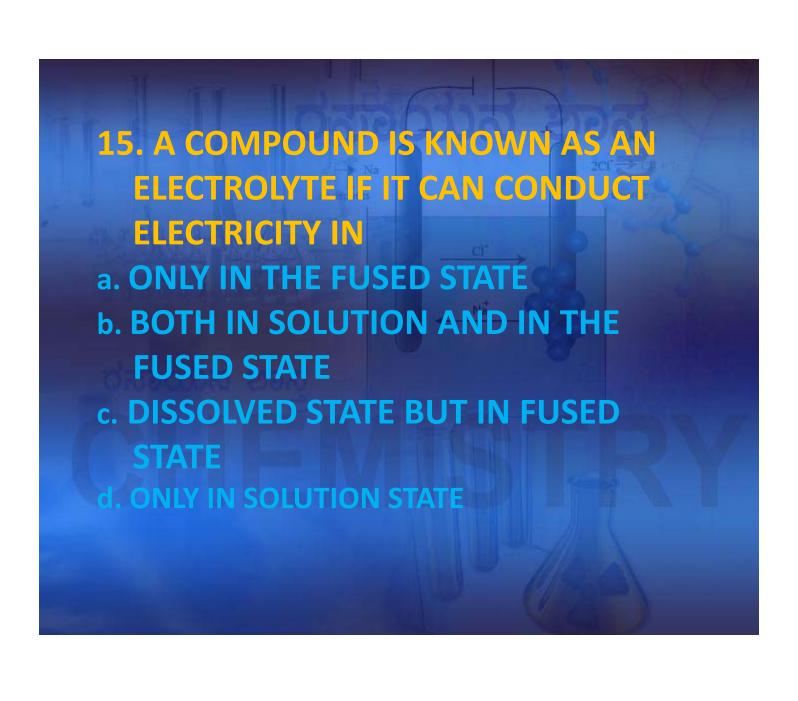
13. THE SPECIFIC CONDUCTANCE OF AN ELECTROLYTE

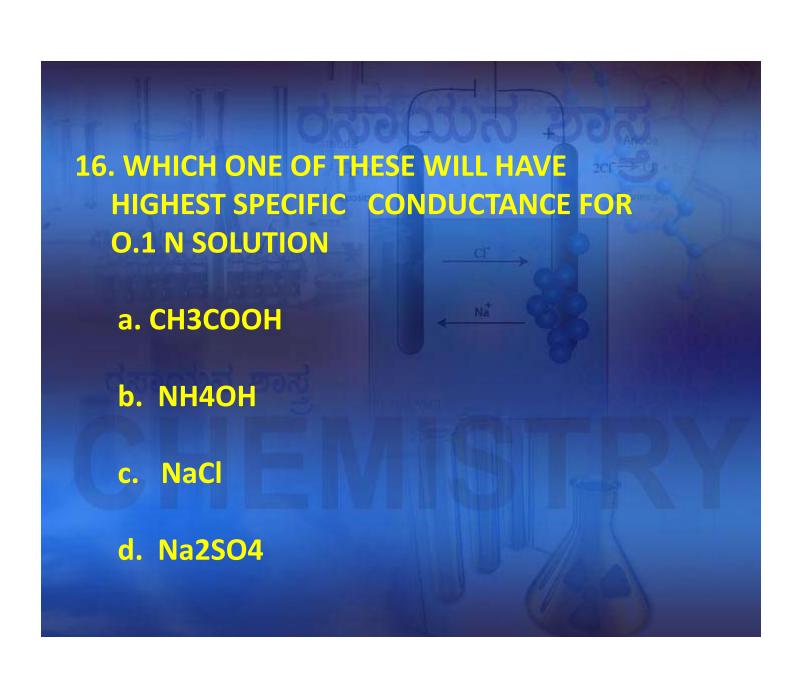
um deposits

- a. INCREASES WITH INCREASE IN TEMPERATURE
- b. DECREASES ON DILUTION
- c. DEPENDS ON THE NATURE OF THE ELECTROLYTE
- d. ALL ARE CORRECT



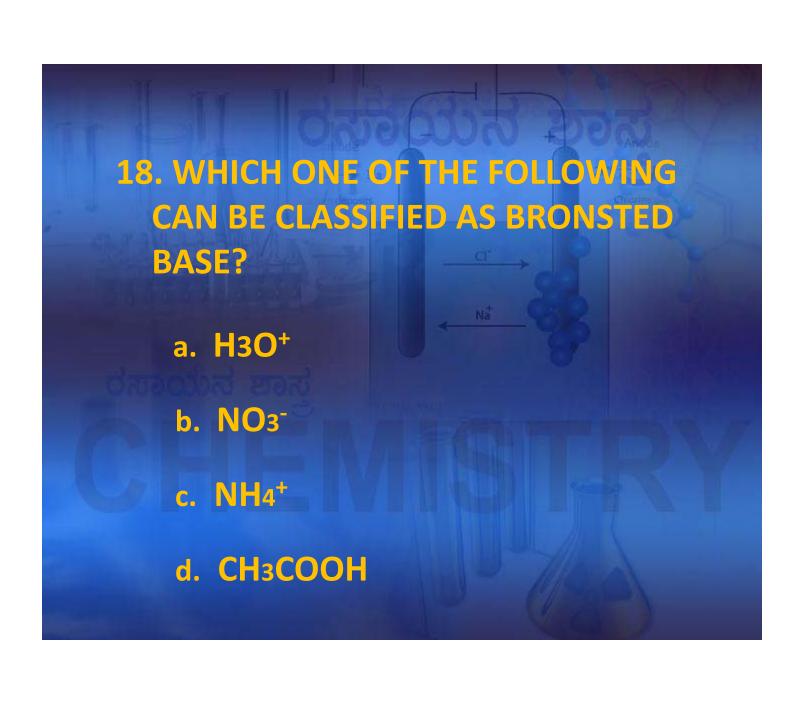
- a. IN AQUEOUS MEDIUM HF IS A STRONGER ACID THAN HCl
- b. HClO4 IS WEAKER ACID THAN HClO3
- c. HNO3 IS A STRONGER ACID THAN HNO2
- d. H₃PO₃ IS A STRONGER ACID THAN H₂SO₃







- a. 1.2x10⁻³ Sm2eq⁻¹
- b. 1.2x10⁻³ Sm2eq⁻¹
- c. 1.2x10⁻² Sm2eq⁻¹
- d. 120 Sm²eq⁻¹



19. A CURRENT OF ELECTRICITY IS PASSED THROUGH SILVER VOLTAMETER CONNECTED TO A WATER VOLTAMETER. THE CATHODE OF THE SILVER VOLTAMETER WEIGHED 0.108 g MORE AT THE END OF ELECTROLYSIS. VOLUME OF OXYGEN EVOLVED AT S.T.P.

a. 11.2ml

b. 22.4 ml

c. 5.6ml

d. 56mL