

24 Which reaction produces ethanol?

- (1) combustion
- (2) esterification
- (3) fermentation
- (4) polymerization

25 The chemical process in which electrons are gained by an atom or an ion is called

- (1) addition
- (2) oxidation
- (3) reduction
- (4) substitution

26 Which process occurs in an operating voltaic cell?

- (1) Electrical energy is converted to chemical energy.
- (2) Chemical energy is converted to electrical energy.
- (3) Oxidation takes place at the cathode.
- (4) Reduction takes place at the anode.

27 What can be explained by the Arrhenius theory?

- (1) the behavior of many acids and bases
- (2) the effect of stress on a phase equilibrium
- (3) the operation of an electrochemical cell
- (4) the spontaneous decay of some nuclei

28 According to one acid-base theory, a water molecule acts as an acid when the molecule

- (1) donates an H^+ ion
- (2) accepts an H^+ ion
- (3) donates an OH^- ion
- (4) accepts an OH^- ion

29 Positrons and beta particles have

- (1) the same charge and the same mass
- (2) the same charge and different masses
- (3) different charges and the same mass
- (4) different charges and different masses

30 Which term identifies a type of nuclear reaction?

- (1) transmutation
- (2) neutralization
- (3) deposition
- (4) reduction

January 2015 Chemistry Regents

Tobias Bleicker



January 2015 Chemistry Regents:

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