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| <p>_____ 1. The phase of a sample of a molecular substance at STP is <i>not</i> determined by its</p> <ul style="list-style-type: none">(1) arrangement of molecules(2) intermolecular forces(3) number of molecules(4) molecular structure <p>_____ 2. Which atom has the <i>weakest</i> attraction for electrons in a chemical bond?</p> <ul style="list-style-type: none">(1) a boron atom(2) a calcium atom(3) a fluorine atom(4) a nitrogen atom <p>_____ 3. Which statement describes a chemical reaction at equilibrium?</p> <ul style="list-style-type: none">(1) The products are completely consumed in the reaction.(2) The reactants are completely consumed in the reaction.(3) The concentrations of the products and reactants are equal.(4) The concentrations of the products and reactants are constant. <p>_____ 4. Which element has atoms that can bond to each other in rings and networks?</p> <ul style="list-style-type: none">(1) aluminum (2) carbon(3) hydrogen (4) oxygen <p>_____ 5. In an oxidation-reduction reaction, the total number of electrons lost is</p> <ul style="list-style-type: none">(1) equal to the total number of electrons gained(2) equal to the total number of protons gained(3) less than the total number of electrons gained(4) less than the total number of protons gained | <p>_____ 6. Which compounds are electrolytes?</p> <ul style="list-style-type: none">(1) C_2H_5OH and H_2SO_4(2) C_2H_5OH and CH_4(3) KOH and H_2SO_4(4) KOH and CH_4 <p>_____ 7. Which compounds yield hydrogen ions as the only positive ions in an aqueous solution?</p> <ul style="list-style-type: none">(1) H_2CO_3 and $HC_2H_3O_2$(2) H_2CO_3 and $NaHCO_3$(3) NH_3 and $HC_2H_3O_2$(4) NH_3 and $NaHCO_3$ <p>_____ 8. Nuclei of U-238 atoms are</p> <ul style="list-style-type: none">(1) stable and spontaneously absorb alpha particles(2) stable and spontaneously emit alpha particles(3) unstable and spontaneously absorb alpha particles(4) unstable and spontaneously emit alpha particles <p>_____ 9. Which nuclear emission has the greatest penetrating power?</p> <ul style="list-style-type: none">(1) proton(2) beta particle(3) gamma radiation(4) positron <p>_____ 10. The dating of geological formations is an example of a beneficial use of</p> <ul style="list-style-type: none">(1) isomers(2) electrolytes(3) organic compounds(4) radioactive nuclides |
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