Chemistry General Science Test Hard Mode

Sr	Questions	Answers Choice
1	The percentage of oxygen in NaOH is	A. 40 B. 60 C. 8 D. 10
2	Detergents are	A. Synthetic products B. Natural products C. Both A and B D. None of the above
3	The kinetic theory of gases predicts that total kinetic energy of a gaseous assembly depends on	A. Pressure of the gas B. Temperature of the gas C. Volume of the gas D. Pressure temperature and volume of the gas
4	The IUPAC name of the compound having the formula (CH3) 3 C - CH = CH2 is	A. 1, 1 -Dimethyl-3-butene B. 1,1,1-Trimethyl-3-propene C. 3,3,-Dimethyl-1-butene D. 3,3,3-Trimethyl-1-propene
5	The equilibrium constant in a reversible chemical reaction at a given temperature	A. Depends on the initial concentration of the reactants B. Depends on the concentration of one of the products at equilibrium C. Does not depend on the initial concentrations of recatants D. Is not characteristic of the reaction
6	Which species represents the electrophile in aromatic nitrotaion?	A. NO⁻₂ B. + NO₂ C. NO2 D. NO⁻₃
7	Which one of the following compounds does not exist?	A. NCl₅ B. AsF₅ C. SbCl₅ D. PF₅
8	Setting of plaster of paris involves	A. Oxidation with atmospheric oxygen B. Combination with atmosphere CO₂ C. Dehydration D. Hydration to yield another hydrate.
9	A solution of sodium sulphate was electrolysed using some inert electrodes.The products at the electrodes are	A. O₂, H₂ B. O₂, Na C. O₂, SO₂ D. O₂, S₂O²-₈
10	The principle constituent of pyrex glass is	A. Zn B. B C. Pb D. Cl
11	With increasing principle quantum number the energy difference between adjacent energy levels in H atom	A. Decreases B. Increases C. Remains constant D. Decreases for low value of Z and increases for higher value of Z.

12	Which of the following statements is most appropriate about effective nuclear charge? It depends upon	A. The shielding constant B. The atomic number C. The charge on the nucleus D. Both the nuclear charge and the shielding constant
13	Which of the following value of ΔHf° represent that the product is least stable?	A. -94.0 kcal mol⁻¹ B. -231.6 kcal mol⁻¹ C. +21.4 kcal mol⁻¹ D. +64.8 kcal mol⁻¹
14	Bromine is obtained on a commercial scale from	A. Caliche B. Carnallite C. Common satl D. Cryolite
15	An exothermic reaction is one in which the reacting substances	A. Have more energy than the products B. Have less energy than the products C. Have the same energy as the products D. Are at a higher temperature than the products
16	When $KClO_3$ is heated it decomposes into KCl and O_2 if some MnO_2 is added the reaction goes much faster because	A. MnO₂ decomposes to give O₂ B. MnO₂ provides heat by reacting C. Better contact is provided by MnO₂ D. MnO₂ acts as a catalyst
17	On heating acetaldehyde with ammonical silver nitrate solution we get	A. CH₃OH B. Silver acetate C. HCHO D. Silver mirror
18	Hydrolytic conversion of sucrose into glucose and fructose is known as	A. Induction B. Inversion C. Insertion D. Inhibition
19	The carbon atoms in calcium carbide are held by	A. Ionic bonds B. 2 sigma bonds C. 2 covalent one co-ordinate bond D. 2 π and one σ bond
20	Which is true for an element R present in group 13 of the periodic table?	A. It is a gas at room temperature B. It has oxidation state of +4 C. It forms R₂O₃ D. It forms RX₂