

Chemistry General Science Test Hard Mode

Sr	Questions	Answers Choice
1	Cyclone collector is used for minimizing	A. Radioactive pollution B. Air pollution C. Noise pollution D. Water pollution
2	The spectrum of helium is expected to be similar to that of	A. H B. Li^{+} C. Na D. He^{+}
3	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 $\text{R}^{2+}\text{O}^{3-}$ D. It forms RX_2
4	Most common reactions of benzene and its derivatives are	A. Electrophilic addition reactions B. Electrophilic substitution reactions. C. Nucleophilic addition reactions D. Nucleophilic substitution reactions
5	Which of the following belongs to the halogen family?	A. Francium B. Polonium C. Radium D. Astatine
6	Setting of cement is an	A. Exothermic reaction B. Endothermic reaction C. Neither exothermic nor endothermic D. None
7	The rate of a reaction can be increased in general by all the factors except by	A. Using a catalyst B. Increasing temperature C. Increasing the activation energy D. Increasing the conc. of reactants
8	Which of the following has greatest reducing power?	A. HI B. Hbr C. HCl D. Hl
9	Which of the following has linear shape?	A. SP B. SP^{2+} C. SP^{3+} D. None of the above
10	The freezing point of 1 molal NaCl solution assuming NaCl to be 100% dissociated in water in	A. -1.86°C B. -3.72°C C. $+1.86^{\circ}\text{C}$ D. $+3.72^{\circ}\text{C}$
11	Portland cement is manufactured by using	A. Limestone, clay and sand B. Limestone, gypsum and sand C. Limestone, gypsum and alumina D. Limestone, clay and gypsum
12	Which of the following fluorides of xenon is impossible?	A. XeF_2 B. XeF_3 C. XeF_4 D. XeF_6
13	Which of the following alkali metal hydroxides is the strongest base?	A. LiOH B. NaOH C. KOH D. CaOH
14	In which molecule carbon atom is sp^2 hybridized	A. CH_4 B. C_2H_4 C. C_2H_2 D. None of the above
15	Detergents are	A. Synthetic products B. Natural products C. Both A and B

D. None of the above

16 Which one of the halogen acid is a liquid?

- A. HF
- B. HCl
- C. HBr
- D. HI

17 Which of the following process is used to separate insoluble particles from liquids?

- A. Separation
- B. Filtration
- C. Crystallization
- D. Condensation

18 Bromine is obtained on a commercial scale from

- A. Caliche
- B. Carnallite
- C. Common salt
- D. Cryolite

19 Toluene can be oxidized to benzoic acid by

- A. KMnO_4 (alk)
- B. $\text{K}_2\text{Cr}_2\text{O}_7$ (acidic)
- C. Both
- D. None

20 Causticisation process is used for the preparation of

- A. Caustic soda
- B. Caustic potash
- C. Baryta solution
- D. Slaked lime