

**Chemistry****Directions**

You are given following questions from the topic, with four choices A through D. Select the choice that will answer the question best.

1. The mass of one mole of chlorine gas is

  - A. 35.5 g
  - B. 71 g
  - C. 23 g
  - D. 32 g
2. One mole of water contains

  - A. 84 g
  - B.  $6.02 \times 10^{23}$  atoms
  - C.  $6.02 \times 10^{23}$  molecules ions
  - D.  $6.02 \times 10^{23}$
3. Which one of the following method is used to obtain iodine present in water

  - A. Chromatography
  - B. Filtration
  - C. Solvent extraction
  - D. Sublimation
4. \_\_\_\_\_ use as declorizing agent

  - A. Silica agent
  - B. Animal charcoal
  - C. Asbestos

**Chemistry**

- D. Conclusion of  $\text{H}_2\text{SO}_4$
5. Which pair of gases don't obey Dalton's law of partial pressure
- A.  $\text{H}_2$  and  $\text{O}_2$
- B.  $\text{N}_2$  and  $\text{O}_2$
- C.  $\text{NH}_3$  and  $\text{HCl}$
- D.  $\text{H}_2$  and  $\text{He}$
6. The sum of pH and POH is
- A. 0
- B. 7
- C. 14
- D. 10
7. Use of antifreeze in automobile is an important application of
- A. Constitutive property
- B. Additive property
- C. Colligative property
- D. Intenstine property
8. An aqueous solution boils at  $100.52^\circ\text{C}$ . It should freeze at
- A.  $0^\circ\text{C}$
- B.  $-18.6^\circ\text{C}$
- C.  $-2^\circ\text{C}$
- D.  $+18.6^\circ\text{C}$

## Chemistry

9. Value of standard reduction potential for strong reducing agent is
- A. Large positive value
  - B. Zero
  - C. Large negative value
  - D. Any of the above
10. A pseudo unimolecular reaction has order of reaction
- A. 0
  - B. 1
  - C. 2
  - D. 3
11. Which form maximum compounds with Xenon
- A. F
  - B. Cl
  - C. Br
  - D. I
12. Halogen have highest bond energy
- A.  $F_2$
  - B.  $Cl_2$
  - C.  $Br_2$
  - D.  $I_2$
13. Stainless steel is
- A. Compound

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- B. An element
- C. Mixture
- D. 100% pure iron

14. The chemical formula of chromyl gen is

- A.  $\text{Cr}_2\text{O}_3$
- B.  $\text{CrOCl}$
- C.  $\text{CrCl}_3$
- D.  $\text{CrO}_2\text{Cl}_2$

15. Linear shape is associated with \_\_\_\_\_ hybrid orbital

- A.  $\text{Sp}$
- B.  $\text{Sp}^2$
- C.  $\text{Sp}^3$
- D.  $\text{dSp}^2$

16. \_\_\_\_\_ have  $\text{Sp}^2$  hybridization

- A. Benzene
- B. Methane
- C. Ethane
- D. Acetylene

17. Which one is ortho and para direction

- A.  $\text{CHO}$
- B.  $\text{SO}_3\text{H}$
- C.  $\text{NO}_2$

## Chemistry

D. Cl

18.  $\text{NO}_2^+$  is called

A. Nitric ion

B. Nitrogen

C. Nitrate ion

D. Nitronium ion

19. Carbanions are

A. Electrophile

B. Nucleophilic

C. Group of atoms

D. Free radical

20. When aldehydes react with Tollen's reagent

A. A ketone is produced

B. An alcohol is produced

C.  $\text{Ag}^+$  ions are produced

D.  $\text{Ag}^+$  ions are reduced

## Chemistry

### ANSWERS

1.	B	2.	D	3.	C	4.	B
5.	C	6.	C	7.	C	8.	B
9.	C	10.	B	11.	A	12.	B
13.	C	14.	D	15.	A	16.	A
17.	D	18.	D	19.	B	20.	D