

- 1- Which of the following pair has equal molar volume?
a) 44.0 g of CO_2 & 28.0 g of CO
- 2- In solvent extraction, the solvents/solutions should be;
a) Non-volatile & thermally unstable
b) Non-volatile & thermally stable
c) Volatile & thermally stable
d) Non-volatile & thermally unstable
- 3- London dispersion forces exist in;
a) In bromine water
b) In HCl
c) In molecule of Ne gas
d) In molecules of CH_2Cl_2
- 4- Which has maximum boiling point?
a) Ethanol
b) Propanol
c) Methanol
d) 2-hexanone
- 5- Nature of positive particles depend upon;
a) Nature of gas
b) Nature of electrons
- 6- Which of the following is not Nucleophile?
a) H_2O
b) H_2S
c) BF_3
d) NH_3
- 7- Which one is artificial polymer?
a) Lipids
b) Starch
c) Cellulose
d) Polyethylene
- 8- Which of the following contains maximum %age of nitrogen?
a) NH_4Cl
b) NH_4NO_3
c) $(\text{NH}_2)_2\text{CO}$
d) NO_2

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- a) N_2 & CO
b) NH_3 & HCl
c) O_2 & H_2
d) N_2 & O_2
- 10- Formula of methylene chloride is;
a) CH_2Cl_2
b) CH_3Cl
c) CHCl_3
d) CCl_4
- 11- Bleaching powder can be prepared by passing Cl_2 over
a) CaCO_3
b) CaHSO_4
c) CaSO_4
d) Ca(OH)_2
- 12- Washing soda is;
a) $\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O}$
b) $\text{Na}_2\text{CO}_3 \cdot \text{H}_2\text{O}$
c) $\text{NaCl} \cdot \text{H}_2\text{O}$
d) $\text{NaCl} \cdot 5\text{H}_2\text{O}$
- 13- Order of diffusion is;
a) $\text{SO}_2 > \text{CO}_2 > \text{Br}_2 > \text{NH}_3$
b) $\text{Br}_2 < \text{SO}_2 < \text{CO}_2 < \text{NH}_3$
c) $\text{Br}_2 > \text{SO}_2 > \text{CO}_2 > \text{NH}_3$
d) $\text{SO}_2 < \text{CO}_2 < \text{Br}_2 < \text{NH}_3$
- 14- Order of %age of Carbon is;
a) Wrought iron > steel > cast iron
b) Cast iron > steel > wrought iron
c) Steel > cast iron > wrought iron
d) Steel > wrought iron > cast iron
- 15- Which is a polar solvent is;
a) H_2O
b) Ether
c) Alcohol
d) H_2SO_4
- 16- When temperature is increased of a reaction by 10 C, then rate of reaction increases due to;
a) Net increase in E_a
b) Increase in number of collisions
c) Increase in fruitful collisions of reactants
d) Decrease in E_a
- 17- Which of the following is least reactive?
a) Ester
b) Ether
c) Aldehyde
d) Ketones
- 18- Super-cooled liquid is;
a) CaF_2
b) Glass

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- a) NaCl
b) H_2O
c) CH_3Cl
d) None
- 19- Which has zero dipole moment?
a) H_2O
b) CH_3Cl
c) CO_2
d) HCl
- 20- Which is not according First Law of thermodynamics?
a) Energy can neither be created nor be destroyed
b) Energy of one form can be changed into another
c) Continuous work can be done without providing heat
d) Total energy of system is conserved
- 21- When salt bridge is held then potential of two compartments;
a) Increases
b) Decreases
c) Remains constant
d) Minimum or approaches to zero
- 22- In paper preparation, in digester temperature is kept at;
- 23- Which of the following is correct?
a) Lanthanides lie in the same group
b) Halogens exist in the same period
c) Alkali metals exist in the same group
d) Alkalies exist in the same period
- 24- Which is insoluble in water?
a) Na_2SO_4
b) K_2SO_4
c) BaSO_4
d) ZnSO_4
- 25- Formula of colemanite is;
a) $\text{Ca}_2\text{B}_6\text{O}_{11} \cdot 5\text{H}_2\text{O}$
b) $\text{CaB}_4\text{O}_7 \cdot 4\text{H}_2\text{O}$
c) $\text{Na}_2\text{B}_4\text{O}_7 \cdot 4\text{H}_2\text{O}$
d) none
- 26- When molecule of H_2 is eliminated from benzene, then it turns into
a) Cyclo-hexane
b) Toluene
c) Phenol
d) Formaldehyde
- 27- Which compound can directly be formed from acetic acid?
a) Acetamide
b) Acetic anhydride
c) Acetyl chloride
d) Both B & C

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- a) NaCl
b) H_2O
c) CH_3Cl
d) None
- 28- The main pollutant of leather tanneries in the waste water is due the salt of;
a) Lead
b) Chromium(6)
c) Copper
d) Chromium(3)
- 29- Which three elements are needed for healthy growth of plants
a) N, S, P
b) N, Ca, P
c) N, K, P
d) N, K, C
- 30- Which of the following reagent will react with both aldehydes and ketones?
a) Grignard reagent
b) Tollen's reagent
c) Fehling's reagent
d) Benedict's reagent