

Chemistry question- SET -3

- In a N_2 molecule there are
 - one sigma and one pi bond
 - two sigma and one pi bond
 - three sigma bonds
 - one sigma and two pi bonds
- The carbon- carbon bond length is maximum in
 - ethane
 - ethylene
 - ethyne
 - equal in all
- For an endothermic reaction
 - ΔH is -ve
 - ΔH is +ve
 - ΔE is -ve
 - ΔH is zero
- The rate of evaporation of a liquid depends upon
 - surface area
 - temperature
 - nature of liquid
 - all of these
- Which out of the following is not an intensive property?
 - volume
 - concentration
 - density
 - pressure
- 1 mole CO_2 contains
 - 3 g atoms of CO_2
 - 18.1×10^{23} molecules of CO_2
 - 6.02×10^{23} atoms of oxygen
 - 6.02×10^{23} atoms of carbon
- Which one of the following is not an element?
 - diamond
 - graphite
 - silica
 - phosphorous
- Temporary hardness may be removed by mixing
 - $CaCO_3$
 - $CaSO_4$
 - $Ca(OH)_2$
 - $CaCl_2$
- A saturated solution of KCl on heating becomes
 - unsaturated
 - supersaturated
 - hydrated
 - none of these
- Between CH_3COOH and $HCOOH$, the $HCOOH$ will be
 - less acidic
 - equally acidic
 - more acidic
 - non acidic

- 11 Hydrogen directly combines with
- a) calcium
 - b) chromium
 - c) sodium
 - d) magnesium
- 12 Which of the following oxides is amphoteric in nature
- a) CaO
 - b) MgO
 - c) Al₂O₃
 - d) B₂O₃
- 13 A liquid which is permanently super-cooled is frequently called a
- a) iron
 - b) gold
 - c) plastic
 - d) glass
- 14 Hydrolysis is reverse of
- a) ionisation
 - b) neutralization
 - c) acidification
 - d) saponification
- 15 The compound that is most reactive towards electrophilic nitration is
- a) toluene
 - b) benzene
 - c) benzoic acid
 - d) nitrobenzene
- 16 Which compound has zero dipole moment?
- a) H₂O
 - b) HCl
 - c) NH₃
 - d) C₆H₆
- 17 CH₃OH is named as
- a) wood spirit
 - b) ether
 - c) grain alcohol
 - d) rectified spirit
- 18 CO is isoelectronic with
- a) O₂⁻
 - b) O₂⁺
 - c) N₂
 - d) CN⁺
- 19 Which form of radioactivity is most penetrating?
- a) alpha particles
 - b) beta particles
 - c) neutrons
 - d) gamma
- 20 The aqueous solution of a salt of weak acid and strong bases is
- a) always acidic
 - b) always basic
 - c) always neutral
 - d) sometimes acidic, sometimes basic

Answer key of Set-3

1	d
2	a
3	b
4	d
5	a
6	d
7	c
8	c
9	b
10	c
11	a
12	c
13	d
14	b
15	a
16	d
17	a
18	c
19	d
20	b