

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT, ODISHA

Chemistry question- SET -3

- 1 In a N_2 molecule there are
 - a) one sigma and one pi bond
 - b) two sigma and one pi bond
 - c) three sigma bonds
 - d) one sigma and two pi bonds
- 2 The carbon- carbon bond length is maximum in
 - a) ethane
 - b) ethylene
 - c) ethyne
 - d) equal in all
- 3 For an endothermic reaction
 - a) ΔH is -ve
 - b) ΔH is +ve
 - c) ΔE is -ve
 - d) ΔH is zero
- 4 The rate of evaporation of a liquid depends upon
 - a) surface area
 - b) temperature
 - c) nature of liquid
 - d) all of these
- 5 Which out of the following is not an intensive property?
 - a) volume
 - b) concentration
 - c) density
 - d) pressure
- 6 1 mole CO_2 contains
 - a) 3 g atoms of CO_2
 - b) 18.1×10^{23} molecules of CO_2
 - c) 6.02×10^{23} atoms of oxygen
 - d) 6.02×10^{23} atoms of carbon
- 7 Which one of the following is not an element?
 - a) diamond
 - b) graphite
 - c) silica
 - d) phosphorous
- 8 Temporary hardness may be removed by mixing
 - a) $CaCO_3$
 - b) $CaSO_4$
 - c) $Ca(OH)_2$
 - d) $CaCl_2$
- 9 A saturated solution of KCl on heating becomes
 - a) unsaturated
 - b) supersaturated
 - c) hydrated
 - d) none of these
- 10 Between CH_3COOH and $HCOOH$, the $HCOOH$ will be
 - a) less acidic
 - b) equally acidic
 - c) more acidic
 - d) 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