Quiz questions for sem (1)

Physical chemistry

Question 1: Na2CO3 is a weak or strong electrolyte.

Ans: Strong

Question 2: pH of pure water increases or decreases or remains constant with temp.

Ans: Constant

Question 3: An acidic solution is positively or negatively charged or neutral.

Ans: Neutral

Question 4: Common ion effect causes an increase or decrease in ionization of the weak or strong

electrolyte.

Ans: Decrease in weak electrolyte

Question 5: The equillibrium is relevant to ----- electrolyte

(i) weak

(ii) strong

(iii) both

(iv) NoA

Question 6: A solution of a salt of WA and SB is alkaline or acidic in nature

Ans: Alkaline

Question 7: What a is titration curve?

Ans: pH vs V

Question 8: At equivalence point ----- of acid and base become equal

Ans: mole or g equ

Question 9: Ionization of a weak acid increases or decreases with conc.

Ans: Decreases

Question 10: Is it true that salt hydrolysis is the reverse of acid base neutralisation reaction?

Ans: True

Question 11: Ionic product is related to saturated solution or equillibrium.

- (i) saturated solution
- (ii) equllibrium
- (iii) both
- (iv) none

Question 12: True or false "at equivalence point pH= 7 for all acid base titration reactions"

Ans: False

Question 13: Between the pair WE-SE, and SE-SE which will show common ion effect?

Ans: WE-SE

- Q. 1 At the critical temperature, the surface tension of the liquid
- (a) Is zero
- (b) Is infinity
- (c) Is the same as that at the other temperature
- (d) Cannot be determined

Answer: (a) Is zero

- Q. 2 If common salt is dissolved in water, then the surface tension of saltwater is
- (a) Increased
- (b) Decreased
- (c) Not changed
- (d) First increases then decrease

Answer: (a) Increased

- Q. 3 The rise of a liquid in a capillary tube does not depend upon
- (a) Angle of contact
- (b) Density of the liquid
- (c) Radius of the capillary tube
- (d) Atmospheric pressure

Answer: (d)

- Q. 4 When there are no external forces, the shape of a liquid drop is determined by
- (a) Surface tension of the liquid
- (b) Density of liquid
- (c) Viscosity of liquid
- (d) Temperature of air only

Answer: (a)

- Q. 5 If the surface of a liquid is plane, then the angle of contact of the liquid with the walls of container is
- (a) Acute angle (b) Obtuse angle
- (c) 90° (d) 0° Answer: (d)
- Q. 6 Which of these fluids has the highest viscosity?
- (a) Water
- (b) Honey
- (c) Blood
- (d) Air

Answer: (b) Honey

- Q. 7What happens to the viscosity of liquid with the increase in temperature
- (a) It increases
- (b) It decreases
- (c) It may increase or decrease
- (d) No change

Answer: (b) It decreases

- Q. 8. What do we call the maximum velocity of a fluid in a tube for which the flow remains streamlined?
- (a) Hyper velocity
- (b) critical velocity
- (c) Stream velocity
- (d) Laminar velocity

Answer: (b) critical velocity

- Q. 9The viscosity of a fluid in motion is 1 Poise. What will be it's viscosity (in Poise) when the fluid is at rest?
- a) 0
- b) 0.5
- c) 1
- d) 2

Answer c

Q. 10 What is Reynolds number?

Answer Ratio of velocity gradient Viscous force

Inorganic chemistry

- 1. What condition is required for the formation of the positive species in an ionic compound? Ans. Low ionization energy
- 2. Who proposed the rules for polarization? Ans. Fajan
- 3. Who first defined the term electronegativity? Ans. Pauling
- 4. In Allred-Rochow scale, electronegativity is a function of what? Ans. Size and charge
- 5. Which has higher melting point--- BeCl2 or CaCl2? Ans. CaCl2
- 6. Bond moment may be zero but dipole moment cannot be zero---True or false? Ans. False
- 7. Which will have non-zero dipole moment--- CCl4 or CH3Cl? Ans. CH3Cl
- 8. Madelung constant is present in which equation? Ans. Born-Lande equation
- 9. Which type of bond results from the combination of px orbitals? Ans. π -bond
- 10. Combination of s & pz orbitals may occur in some elements---- True or false? Ans. True
- 11. Resonance structures are imaginary----True or False? Ans. True