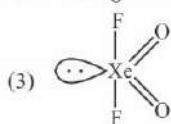
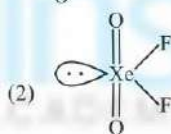
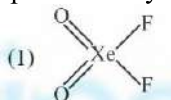




28) Half life of a chemical reaction at a particular concentration is 50 minutes. When the concentration of the reactant is doubled, the half life remains same, then the order of reaction is

- a) Zero b) First
c) Second d) Third

29) Structure of XeO_2F_2 is incorrectly represented by



(4) both (1) and (2)

30) The value of observed molecular weight of silver nitrate is 133.5 gram/mole in an aqueous solution the degree of dissociation of silver nitrate in this solution may be

- a) 32% b) 27%
c) 79% d) 49%

31) Aniline reacts with bromine water to give white precipitate. Calculate amount of white precipitate formed when 93 g aniline reacts with 640 g Br_2 with 50% yield

- a) 81 g b) 165 g
c) 300 g d) 172 g

32) The cell constant of a conductivity cell is defined as (σ = cell constant l = length between the electrode A = area, R = resistance, G = Conductance, K = conductivity, ρ = specific resistance)

- a) $\sigma = \frac{\rho}{R}$ b) $\sigma = G \times K$
c) $\sigma = (G\rho)^{-1}$ d) All of these

The equilibrium constant for the reaction $\text{Sr}_{(s)} + \text{Mg}_{(aq)}^{+2} \rightleftharpoons \text{Sr}_{(aq)}^{+2} + \text{Mg}_{(s)}$ is 2×10^2 at 25°C . The E° for a cell made up of Sr/Sr^{+2} and Mg^{+2}/Mg half cell is;

- (1) 0.0591 V (2) 0.0679 V

33) (3) 0.0366 V (4) 3.667 V

34) If relative decrease in vapour pressure is 0.5 for a solution containing 1 mole NaCl in 2 mole of H_2O then % ionization of NaCl is

- a) 100% b) 60%
c) 40% d) 80%

35) Which of the following compound does not contain N – N bond?

- a) N_2O_5 b) N_2O_4
c) N_3H d) N_2O_3

36) For an electrolyte A_2B_3 which is correct relation between molar conductivity (Λ_m) and equivalent conductivity (Λ_{eq})?

- a) $\Lambda_{eq} = 6\Lambda_m$ b) $2\Lambda_m = 3\Lambda_{eq}$
c) $\Lambda_m = 6\Lambda_{eq}$ d) $3\Lambda_m = 2\Lambda_{eq}$

37) Which of the following salt has more value of Van't Hoff factor i as that of NaCl ?

- a) Na_2SO_4 b) $\text{Al}(\text{NO}_3)_3$
c) $\text{K}_4[\text{Fe}(\text{CN})_6]$ d) All of these

38) An aqueous sodium acetate solution is electrolyzed using 2A current for 9650 sec. Calculate volume of gas evolved at anode at S.T.P.

- a) 4.48 L b) 2.24 L
c) 6.72 L d) None of these

39) When ethyl alcohol ($\text{C}_2\text{H}_5\text{OH}$) reacts with thionyl chloride, in the presence of pyridine, the gas obtained is

- a) HCl b) SO_2
c) HCl, SO_2 d) None of these

40) The number of P–O–P (bridges bond) and lone pair in the structure of P_4O_{10} are

- a) 20, 4 b) 6, 20
c) 24, 6 d) 4, 24

41) When the activation energies of forward and backward reaction are equal, then

- a) $\Delta H = 0$ b) $\Delta H = \infty$
c) No catalyst present d) $\Delta S = 0$

Answer Key for 23-04-2025 NEET MODEL QUESTION PAPER – CHEMISTRY

Q	16	17	18	19	20	21
A	C	A	A	A	B	B
Q	22	23	24	25	26	27
A	C	D	D	D	D	D

– தொடரும்

